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ABSTRACT

In initial state-level data base of 30 selected measurements of educational policy and practice and related state conditions is presented. The variables were selected, in part, as distinctive phenomenon with potential relevance to education. Each measure has been defined to promote inter-state comparability. The measurements were selected to represent a broad spectrum of state conditions relevant to education in the areas of demography (e.g., net migration and youth in poverty); economics (e.g., tax effort and school size); schools (e.g., school size and expenditures); politics (number of local governments and composition of state legislature); participation rates (e.g., high school graduation rate and college starting rate); migration (public system attractiveness to residents and non-residents); public system characteristics (e.g., public versus private strength and geographic accessibility); program and retention profiles (e.g., graduation profile and graduate education emphasis); and finance of public higher education (e.g., role of tuition and public system financial support). Each entry was required to have a partially distinct, although possibly small, causal potential to some aspect of education policy and/or operations. The supporting tables for the data base are as follows: basic data migration, college starting, retention profiles; historical data (migration, college starting, retention); and indexes of state level data base variables. (SM)

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A SELECTED STATE-LEVEL EDUCATION DATA BASE *

Kent Halstead

September 7, 1988

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A SELECTED STATE-LEVEL EDUCATION DATA BASE

Introduction

This monograph presents an initial state-level data base of 30 selected measurements of education policy and practice and related state conditions. The variables were selected, in part, as distinctive phenomenon with potential relevance to education. Each measure has been defined to promote inter-state comparability. The individual measures may be used for policy analyses and the collective set for regression study..

State-level cross section education data bases, no matter how extensive or refined, have two inherent limitations which should be noted. First, both school and collegiate education are primarily local activities governed by a myriad of conditions and behavior patterns of individual students, families, communities, and institutions. These conditions and patterns are detailed and interact in a variety of combinations and proportions which make it difficult to establish state totals for the individual components involved. Thus the complexity of the conditions and patterns affecting education prevent easy portrayal by simple aggregate measures.

Second, there are statistical problems that lessen the value of state-level data. The number of observations possible--50 states and D.C.--does not always provide sufficient evidence of the relationships that may exist. Also, the high degree of multicollinearity among the independent variables makes it impossible to sort out their distinctive effects. And, the sharing of a common denominator component among certain index ratios may result in partially artificial relationships.

Given these limitations, the education data base presented still provides individually meaningful measures and, with future expansion, potential for increasing value in regression study.

Measurement Selection

The vast majority of education data at the pupil and institutional level are too variant, complex, and detailed for meaningful summary at the state level. Useful aggregate state-level data is thus inherently limited. Also restricting the size of this initially developed data base is the exploratory nature of this investigation. Hopefully further work and field response will identify additional qualifying variables.

Yet some extremely important operating characteristics of education are set by state level policy. These operational

characteristics together with possible related state conditions have been sought for the data base. For example, freshmen enrollments, are largely dependent on the aggregate number of resident high school graduates. Also, the prevalence and location of low-cost community colleges create price and program access which affect both entrance and retention rates. In the area of finance, state level tax capacity and legislative decisions on collection effort and budget allocation, are primary determinants affecting the funding of education. Theoretically these types of data, in collective comparable form, should be useful in evaluating relative state status and in study of possible relationships.

The initial set of 30 measurements have been selected primarily to represent a broad spectrum of state conditions relevant to education in the areas of demography, economics, schools, politics, participation rates, migration, and public system characteristics. It is important to strive for this breadth to encourage the inclusion of all known suspect causal factors. The accidental exclusion of a single important variable seriously limits the estimating capacity of any regression model that may be attempted. Therefore, some measurements reported, while expected to show limited relationships to educational activities, are included in the data base to provide the required initial comprehensive coverage.

The measurements were identified from an extensive review of state level data using the criteria of relevancy, distinctiveness, and inter-state comparability. Measurements deemed relevant include major operational behaviors of schools and colleges, performance measures of education goal achievement, and other economic and social conditions likely to influence education practices and/or achievement. Measures were judged irrelevant when rationale or documentation for the suspected cause and effect relationships involved were judged weak or non-existent, or when supporting empirical evidence was not provided. Again, it is important to note that many local factors of recognized importance to education are not available as meaningful state measures, e.g., SAT scores, college entrance requirements, availability of student financial aid, program offerings, etc.

Each entry was required to have a partially distinct, although possibly small, causal potential to some aspect of education policy and/or operations. To avoid duplication only a single "best" entry was chosen among similar measures. The tremendous overlap in education data is seldom fully appreciated. Slight and often inconsequential alterations in definitions produce this proliferation which should not be confused with true breadth. The "best" entry was judged to be the one which most exclusively measured the specific phenomenon sought. To illustrate, education appropriations per full-time-

equivalent student is a superior measure of state and local government financial support relative to the student load base than is total appropriations per student headcount.

Comparability of the data is dependent and thus limited by the definitions prescribed by the collecting agencies. Critical review of these definitions guided selection among similar or alternative measures. For example, Scholastic Aptitude Test (SAT) scores, as a measure of high school graduate ability, cannot be compared at the state level because of the different proportions of high school graduates in each state taking the test. Similarly, faculty salaries, as a college input measure, cannot easily be accurately totaled because state higher education systems differ in their mix of university, 4-year, and 2-year institutions. Such comparability faults excluded a majority of initial candidate measures.

State-Level Data Base

A general description of the state-level data base follows together with a listing of the tables. The 30 measures are reported in Table 1 and individually described in the next section.

To discount the effects of the absolute size of states, all measures are expressed as ratios with an economic base or source population denominator serving as a reference. Table 5 reports the measures indexed to the U.S. average equal to 100. This indexing quickly conveys relative position to the national average and can be used in regression analysis to establish comparable coefficients.

The measures are organized in nine categories: demographic, economic, school, political, participation rates, migration, public system characteristics, program and retention profile, and finance of public higher education. They are further classified according to the degree to which they can be modified by state policy. This distinction allows attention to be focused on operations and designs that can be changed, while recognizing the importance and role of essentially unalterable conditions.

Six measurements of the data base, identified by an "P" symbol, e.g., the attractiveness of a state's public higher education system to residents, are performance measures of the relative achievement of commonly held education goals. These performance measures may serve as dependent variables in regression analyses.

Eight measurements, identified by an "E" (for exogenous), e.g., the education level of parents, are relatively stable inherent conditions, dependent primarily on factors beyond state

control. As stated, broad coverage is sought to include in the data base all the expected possible causal factors including these exogenous variables, thereby establishing the total environment from which the differential effects of public policy can be studied.

Variables which are affected by state policy and decisions are identified on two levels. Some conditions, such as the geographic accessibility of public colleges, are subject to limited state control over an extended time period. Eight such partially controllable variables are identified with a single asterisk (*). Eight additional variables responsive to relatively short term legislative and other state action, e.g., tax effort, are identified by a double asterisk (**).

The supporting tables for the data base are as follows:

Table 2--Basic Data (raw data A-M used to calculate measurements in Table 1).

Table 3--Migration, College Starting, Retention Profiles--Historical Computations (provides historical computed ratios for variables #12, #14, #20, #24, #25, and #26).

Table 4--Historical Data--Migration, College Starting, Retention (basic data a-m used for computations of Table 3).

Table 5--Indexes of State Level Data Base Variables (indexes based on U.S. average = 100).

Description of Variables

P = performance measures of commonly recognized state education goals.
E = inherent stable state conditions primarily independent of policy control. Essentially exogenous.
* = conditions subject to limited state control over an extended period of time.
** = conditions subject to extensive short-term control by legislative and other state policy action.

The sources of directly entered variables are cited with the descriptions which follow. The sources of computed variables consisting of lettered data are presented on pages 9-11.

Demographic:

E #1 METRO VERSUS RURAL POPULATION--Percent of state population living in metropolitan areas, 1986.
Source: U.S. Bureau of the Census, Press Release (CB 86-118) and unpublished data.

E #2 NET MIGRATION--Ratio of 1980 state population plus 1980-86 net migration to 1980 population.
Source: U.S. Bureau of the Census, P25 #1010 Estimates of the Resident Population of States.

E #3 PARENTAL EDUCATION--Percent of parents ages 40-54 years completing 4 or more years of college, 1980.
Source: U.S. Bureau of the Census, Census of Population, Vol 1, Chapter D.

E #4 YOUTH IN POVERTY--Percent of children 1-18 years old below poverty level, 1980.
Source: U.S. Bureau of the Census, 1980 Census of Population, Vol. 1, Chapter C (PC80-1-C)>

Economic:

** #5 TAX EFFORT--tax revenues collected as a percent of tax capacity, 1984. Tax capacity is measured by a representative tax system that defines the tax capacity of a state and its local governments as the amount of revenue they could raise if they applied national average tax rates to their tax bases. The sum of capacities for all states equals the U.S. total tax revenues collected. Tax effort measures the percentage of state and local government tax capacity that is actually collected. The tax revenues collected for all states equals total tax capacity nationwide.
Source: Advisory Commission on Intergovernmental Relations, Measuring State Fiscal Capacity: Alternative Methods and Their Uses.

* #6 TAX WEALTH--Tax revenues collected (as measured by the "representative system" per capita, 1984. Dependent on inherent tax capacity and tax effort.
Source: ACIR, See #5.

For a description of the Cost of Public Service Index (CPS) use to adjust tax wealth to achieve equal purchasing power among states see source listings on page 10.

School:

* #7 SCHOOL SIZE--Average enrollment of public secondary schools ending with grade 12, 1983-84. Includes secondary schools starting with grades 7, 8, 9, and 10.
Source: U.S. Department of Education, National Center for Education Statistics, Digest of Education Statistics, 1983-84.

** #8 SCHOOL EXPENDITURES--Current expenditures per pupil in average daily attendance at public elementary and secondary schools, 1986-87.
Source: National Education Association, Estimates of School Statistics, 1986-87.
Description and source of CPS, see page 10.

Political:

E #9 NUMBER OF LOCAL GOVERNMENTS--Number of local governments per 100,000 population, 1982.
Source: U.S. Bureau of the Census, Census of Governments: 1977 and 1982, Vol. 1, No. 1, Governmental Organization.

E #10 COMPOSITION OF STATE LEGISLATURE--Percent Democrat membership in lower house, 1982 and 1984.
Source: The Council of State Governments, Book of the States, and its Supplement 1, Lexington, KY.

Participation Rates:

P #11 HIGH SCHOOL GRADUATION RATE--Public and private high school graduates (excluding equivalency certificates) per 18-year old population, spring 1986. (C/B)

P #12 COLLEGE STARTING RATE--Resident first-time freshmen attending college anywhere as a percent of high school graduates, fall 1984. See formula below and Table 3.
This variable is computed by applying attendance ratios (derived from Center for Educational Statistics migration data) to enrollment counts reported in the CES fall enrollment survey. The migration enrollment data may not be directly used because the absolute counts are not complete for some states. However, the counts are sufficient to provide reasonable ratios.

The data relationship to derive variable #12 is as follows: #12 x (b/a) = (h/g)(100-#15)

In the description below, residents and enrollments refer to first-time freshmen college attendance.

$$\begin{array}{l} \text{\#12 residents attending college anywhere per high sch grad} \\ \times \\ \text{b/a residents remaining to attend } \underline{\text{in-state public}} \text{ residents attending college anywhere} \\ = \\ \text{h/g total in-state public enroll per high sch grad} \\ \times \left[100 - \text{\#15 non-residents as a percent of total in-state public enroll} \right] \end{array}$$

P #13 NON-COLLEGIATE ATTENDANCE--Enrollment in noncollegiate postsecondary schools with occupational programs per high school graduate, 1981. (G/C)

Migration:

P #14 PUBLIC SYSTEM ATTRACTIVENESS TO RESIDENTS--Resident freshmen remaining in home state to attend public institutions as a percent of high school graduates, 1984. (b/g) See Table 3.

P #15 PUBLIC SYSTEM ATTRACTIVENESS TO NON-RESIDENTS--Non-residents as a percent of total first-time freshmen attending state public institutions, 1984. f/(b+f) See Table 3.

Public System Characteristics:

E #16 PUBLIC VERSUS PRIVATE STRENGTH--Percent of state higher education total headcount enrollment attending public institutions, fall 1985. D/(D+E)

P #17 PUBLIC SYSTEM RELATIVE ENROLLMENT SIZE--Full-time-equivalent (FTE) public enrollment per high school graduate, 1986-87. (F/C)

E #18 PUBLIC SYSTEM SIZE--Headcount enrollment in state public higher education institutions, fall 1985. (D)

* #19 INSTITUTIONAL SIZE--Percent of full-time-equivalent (FTE) students attending public institutions with enrollments greater than 9,000 FTE students, fall 1985.
Source: Computer printout, Office of Public Information, Special Services Division, using Center for Education Statistics, Higher Education General Information Survey data.

* #20 INSTITUTIONAL TYPE--Ratio of public 2-year college enrollment to state's total (4-year + 2-year) public undergraduate enrollment, fall 1985. (j/i) See Table 3.

** #21 PRICE RESTRAINT--Mean tuition at 2-year colleges as a percent of state average personal income, 1985-86. This ratio is a measure of student charges relative to one measure of ability to pay.
Source: College Entrance Examination Board, The College Cost Book, 1985-86.

* #22 STUDENT FINANCIAL AID--Amount of financial aid awarded by state programs to undergraduate students per high school graduate, 1985-86. (I/C)

* #23 GEOGRAPHIC ACCESSIBILITY--Percent of state population residing in counties with public institutions, 1980.
Source: Special computer run from Office of Public Information, Special Services Division, using Center for Education Statistics, Higher Education General Information Survey and U.S. Bureau of the Census data.

Program and Retention Profile:

* #24 TWO-YEAR PROGRAM EMPHASIS--Ratio of associate degrees and other two-year occupational awards to bachelor degrees, fall 1983/fall 1983. (k/l) See Table 3.

* #25 GRADUATION PROFILE--Ratio of bachelor degrees to first-time freshmen enrollment, spring 1985/fall 1981. (l/h) See Table 3.

* #26 GRADUATE EDUCATION EMPHASIS--Ratio of graduate enrollment to bachelor degrees, fall 1985/spring 1985. (m/l) See Table 3.

Finance of Public Higher Education:

** #27 HIGHER EDUCATION FUNDING PRIORITY--Ratio of state and local government appropriations for education per FTE student to tax revenues collected per capita, 1984. (#28/#6)

Education appropriations are for current operating functions associated with student instruction and related supporting activities such as student services, student financial aid, administration, library, physical plant operation, etc. Excluded are funding for physical plant construction and debt retirement, research, agriculture extension, medical education, support to private institutions and financial aid to students attending private institutions.

** #28 STATE AND LOCAL GOVERNMENT FINANCIAL SUPPORT--State and local government education appropriations per full-time-equivalent student, 1985-86. (J/F) See #27 for definition of education appropriations.

Dividing appropriations by the System Support Index (SSI) reflects comparable funding of state systems accounting for different mixes of institutions.

Description and source of SSI and CPS, see pages 10-11.

** #29 ROLE OF TUITION--Tuition revenues as a percent of education appropriations plus tuition, 1985-86. All tuition revenues, regardless of use, are included. K/(J+K)

** #30 PUBLIC SYSTEM FINANCIAL SUPPORT--Education appropriations and tuition per full-time-equivalent student, 1985-86. (J+K)/F

Description and source of SSI and CPS, see pages 10-11.

The sources of variable component data identified by capital alphabetical letter and presented in Table 2 is as follows:

A 18-24 year population,
B 18-year population,
U.S. Bureau of the Census, P25 #1010.

D Fall public enrollment,
E Fall private enrollment,
G Noncollegiate enrollment,
Center for Education Statistics, Higher Education General Information Survey and Education Digest.

C Public and private high school graduates,
F Public FTE enrollment
J State and local government education appropriations,
K Net tuition revenues,
L System support index,
The System Support Index (SSI) reports constructed state and local government education appropriations and tuition revenue per FTE student based on application of national average estimated rates by type of institution to state enrollment mix. Dividing appropriations by the SSI reflects comparable funding of the state system accounting for different mixes of institutions.
Research Associates of Washington, State Profiles: Financing Public Higher Education, 1978 to 1987.

H Personal income per capita,
U.S. Department of Commerce, Bureau of Economic Analysis, Commerce News, Aug 20, 1987.

I Undergraduate state grant aid,
National Association of State Scholarship and Grant Programs, c/o Pennsylvania Higher Education Assistance Agency, 660 Boas Street/Towne House, Harrisburg, PA.

M Cost of Public Service Index,
The Cost of Public Services Index (CPS) reports geographical relative prices for major items representative of a fixed basket of goods and labor typically purchased by state and local governments for current operations of their human service programs. Dividing state and local government fiscal data by the CPS established roughly equivalent purchasing power.
Kent Halstead, Cost of Living, Equilibrium Wages, and Cost of Public Services: City and State Indexes, (unpublished), U.S. Department of Education, 1988.

The source of variable component data identified by a small letter and presented in Table 4 is as follows:

a Total resident first-time freshmen attending college anywhere,
b Resident first-time freshmen remaining in home state to attend public institutions,
c Resident first-time freshmen remaining in home state to attend private institutions,
d Resident first-time freshmen migrating to attend out-of-state public institutions,
e Resident first-time freshmen migrating to attend out-of-state private institutions,
f Non-resident first-time freshmen attending state public institutions,

Migration data printouts, Center for Education Statistics, Office of Educational Research and Improvement, U.S. Department of Education.

g State public and private high school graduates,
Research Associates of Washington.

h First-time freshmen enrollment attending state public institutions, fall enrollment survey,
i Undergraduate enrollment in public institutions,
j Enrollment in public two-year colleges,
k Associate degrees and postsecondary certificates,
l Bachelors degrees awarded at public institutions,
m Graduate enrollment at public institutions,

Higher Education General Information Survey (HEGIS) printouts, Center for Education Statistics, Office of Educational Research and Improvement, U.S. Department of Education.

Table 1 State Level Data Base

State	#1 Percent	#2 Ratio	#3 Percent	#4 Percent	#5 Percent	#6 Amount	#6 Adjusted by CPS	#7 Amount	#8 Amount	#8 Adjusted by CPS	#9 Amount	#10 Percent
Alabama	64.1	1.002	11.8%	23.6%	87.4%	$924	$983	646	$2,642	$2,811	28	90%
Alaska	44.8	1.176	19.8%	12.1%	128.4%	$4,683	$4,003	279	$9,470	$8,094	35	51%
Arizona	75.4	1.149	16.9%	16.5%	96.5%	$1,343	$1,385	877	$2,970	$3,062	16	36%
Arkansas	39.3	1.004	10.2%	23.4%	91.3%	$949	$1,020	339	$3,078	$3,310	62	92%
California	95.7	1.075	20.3%	15.2%	93.5%	$1,582	$1,551	1,131	$4,350	$4,265	17	59%
Colorado	81.6	1.057	21.8%	11.5%	84.6%	$1,406	$1,449	564	$4,682	$4,827	50	33%
Connecticut	93.6	0.998	11.9%	11.4%	98.9%	$1,764	$1,680	1,071	$5,894	$5,613	15	51%
Delaware	66.0	1.022	17.5%	15.6%	79.6%	$1,379	$1,393	974	$5,210	$5,263	36	52%
Dist of Columbia	100.0	0.954	24.2%	27.0%	137.7%	$2,376	$2,329	951	$5,382	$5,276	1	90%
Florida	90.9	1.175	15.2%	18.5%	76.9%	$1,103	$1,161	1,480	$4,496	$4,733	9	67%
Georgia	64.3	1.065	13.5%	21.1%	89.9%	$1,144	$1,167	859	$3,371	$3,440	22	86%
Hawaii	76.9	1.016	19.3%	13.0%	98.9%	$1,635	$1,486	1,532	$4,662	$4,238	2	74%
Idaho	19.4	0.985	15.2%	14.3%	90.3%	$993	$1,013	415	$2,801	$2,858	104	23%
Illinois	82.4	0.967	15.4%	14.7%	106.4%	$1,443	$1,415	991	$4,708	$4,616	56	56%
Indiana	68.0	0.963	11.5%	11.9%	95.6%	$1,170	$1,194	946	$3,761	$3,838	52	41%
Iowa	42.9	0.943	12.9%	11.5%	111.8%	$1,326	$1,367	379	$3,938	$4,060	64	60%
Kansas	52.0	0.992	16.6%	11.4%	96.0%	$1,332	$1,402	335	$4,555	$4,795	158	41%
Kentucky	45.5	0.982	9.8%	21.6%	86.6%	$953	$1,003	771	$3,378	$3,556	34	75%
Louisiana	69.1	1.002	13.1%	23.5%	92.6%	$1,261	$1,356	828	$3,290	$3,538	11	88%
Maine	36.1	1.011	12.6%	15.8%	104.0%	$1,306	$1,360	616	$3,836	$3,996	71	59%
Maryland	92.9	1.015	21.3%	12.5%	100.9%	$1,484	$1,484	1,232	$5,120	$5,120	10	88%
Massachusetts	90.8	1.022	19.5%	13.1%	106.3%	$1,667	$1,534	1,085	$5,044	$4,585	14	80%
Michigan	80.2	0.946	13.8%	13.3%	120.4%	$1,596	$1,464	761	$4,272	$3,919	29	55%
Minnesota	65.8	0.982	17.3%	10.2%	118.9%	$1,697	$1,648	537	$4,638	$4,503	85	53%
Mississippi	30.0	0.989	11.5%	30.4%	93.0%	$904	$983	520	$2,692	$2,926	33	92%
Missouri	68.9	0.996	13.0%	14.6%	83.9%	$1,066	$1,113	543	$3,846	$4,006	63	67%
Montana	24.4	0.983	16.0%	13.8%	106.6%	$1,356	$1,398	263	$4,877	$5,028	128	53%
Nebraska	46.9	0.971	14.6%	12.1%	92.9%	$1,224	$1,316	273	$3,619	$3,891	209	60%
Nevada	82.5	1.141	13.6%	10.0%	63.6%	$1,310	$1,337	852	$3,741	$3,817	21	48%
New Hampshire	56.4	1.073	16.6%	9.4%	64.7%	$1,020	$1,010	799	$4,067	$4,027	55	33%
New Jersey	100.0	1.008	18.6%	14.1%	104.6%	$1,722	$1,694	1,233	$6,642	$6,150	21	46%
New Mexico	47.6	1.049	11.0%	22.1%	86.2%	$1,199	$1,289	705	$3,854	$4,144	23	63%
New York	90.5	0.984	17.9%	19.0%	155.9%	$2,214	$1,925	1,235	$6,680	$5,809	19	64%
North Carolina	55.0	1.039	12.1%	18.3%	92.7%	$1,125	$1,197	886	$3,509	$3,733	15	77%
North Dakota	37.3	0.978	13.3%	14.3%	92.0%	$1,315	$1,384	183	$3,517	$3,702	416	46%
Ohio	78.8	0.958	12.8%	13.2%	102.6%	$1,310	$1,310	835	$4,011	$4,011	32	61%
Oklahoma	58.5	1.040	14.5%	15.7%	84.4%	$1,248	$1,300	322	$3,106	$3,235	68	72%
Oregon	67.4	0.982	17.3%	12.0%	101.4%	$1,350	$1,298	563	$4,706	$4,525	55	56%
Pennsylvania	84.6	0.982	12.8%	13.9%	102.4%	$1,289	$1,205	1,035	$5,328	$4,979	44	51%
Rhode Island	92.5	1.008	14.4%	13.6%	118.0%	$1,459	$1,376	1,235	$4,664	$4,400	13	82%
South Carolina	60.2	1.031	11.8%	21.0%	95.1%	$1,029	$1,083	699	$3,587	$3,776	20	81%
South Dakota	28.2	0.971	12.9%	20.0%	86.8%	$1,004	$1,057	212	$3,523	$3,708	254	21%
Tennessee	66.8	1.012	11.3%	20.6%	81.9%	$960	$1,032	712	$3,011	$3,238	20	62%
Texas	80.7	1.094	16.5%	18.7%	76.1%	$1,190	$1,240	684	$4,156	$4,329	27	71%
Utah	76.9	1.007	20.1%	10.7%	108.9%	$1,238	$1,290	680	$2,981	$3,105	32	21%
Vermont	23.1	1.015	17.1%	13.9%	92.8%	$1,270	$1,270	662	$4,568	$4,568	128	46%
Virginia	71.5	1.038	18.5%	14.9%	86.5%	$1,190	$1,253	946	$4,275	$4,500	7	66%
Washington	81.0	1.025	19.1%	11.5%	94.9%	$1,349	$1,377	604	$4,413	$4,503	41	55%
West Virginia	36.6	0.962	8.6%	18.5%	102.6%	$1,114	$1,137	565	$4,159	$4,244	32	80%
Wisconsin	66.5	0.973	14.0%	10.4%	127.5%	$1,590	$1,574	650	$4,908	$4,857	55	56%
Wyoming	28.8	0.988	16.5%	7.7%	108.0%	$2,570	$2,677	370	$7,565	$7,880	78	34%
UNITED STATES	76.6	1.019	15.8%	16.0%	100.0%	$1,408	$1,408	761	$4,386	$4,386	36	60%

Table 1. State level data base

State	#11 Percent	#12 Percent	#13 Percent	#14 Percent	#15 Percent	#16 Percent	#17 Amount	#18 Amount	#19 Percent	#20 Ratio
ALABAMA	69.1%	68.4%	66.8%	60.6%	14.6%	88.5%	3.25	158,688	24%	0.40
ALASKA	70.2%	47.7%	71.4%	18.4%	9.8%	96.5%	2.53	26,510	43%	1.42
ARIZONA	57.4%	273.0%	169.7%	146.8%	11.0%	93.2%	4.33	202,036	12%	0.70
ARKANSAS	73.7%	60.0%	49.3%	44.3%	9.5%	84.8%	2.14	66,123	38%	0.22
CALIFORNIA	64.8%	109.1%	92.5%	56.3%	4.3%	87.5%	4.04	1,444,207	9%	0.86
COLORADO	69.4%	69.9%	135.0%	57.4%	19.8%	88.0%	3.50	142,031	23%	0.39
CONNECTICUT	89.4%	89.3%	83.0%	49.2%	5.0%	61.9%	1.40	98,616	38%	0.53
DELAWARE	79.2%	72.9%	87.7%	41.2%	44.0%	87.6%	3.00	27,933	32%	0.33
DIST COLUMBIA	66.0%	136.6%	506.9%	18.9%	37.1%	16.2%	1.47	12,747	0%	0.00
FLORIDA	60.0%	73.8%	129.4%	54.6%	10.6%	80.2%	2.92	362,241	9%	0.76
GEORGIA	64.0%	52.9%	120.0%	35.0%	10.5%	75.7%	2.06	148,956	32%	0.29
HAWAII	83.4%	87.6%	46.4%	49.1%	4.3%	86.6%	2.26	43,246	27%	0.60
IDAHO	82.1%	69.3%	27.5%	42.3%	11.4%	78.9%	2.51	33,666	19%	0.19
ILLINOIS	78.6%	89.8%	42.2%	50.5%	2.5%	76.7%	2.64	520,224	14%	0.87
INDIANA	76.1%	66.2%	44.7%	49.8%	11.3%	77.4%	2.38	193,833	21%	0.22
IOWA	90.7%	83.8%	22.3%	57.3%	11.8%	71.8%	2.55	109,765	19%	0.43
KANSAS	79.8%	104.3%	106.2%	91.0%	10.0%	90.0%	3.39	127,220	23%	0.45
KENTUCKY	71.7%	56.4%	64.5%	37.7%	10.2%	78.2%	2.23	110,836	19%	0.28
LOUISIANA	63.4%	65.0%	120.8%	54.2%	10.4%	86.5%	2.62	153,173	10%	0.12
MAINE	82.1%	84.7%	36.1%	37.1%	11.3%	63.6%	1.78	33,188	36%	0.19
MARYLAND	77.0%	78.9%	31.3%	64.6%	13.5%	85.9%	2.69	198,992	23%	0.57
MASSACHUSETTS	88.6%	89.2%	50.2%	37.8%	6.9%	44.1%	1.58	185,602	20%	0.60
MICHIGAN	84.0%	88.8%	97.9%	59.8%	5.0%	85.6%	2.65	434,270	10%	0.56
MINNESOTA	90.6%	89.8%	115.8%	23.9%	13.0%	78.7%	2.86	173,984	26%	0.32
MISSISSIPPI	64.5%	96.6%	9.5%	77.6%	9.4%	89.6%	3.05	90,704	40%	0.47
MISSOURI	75.6%	82.0%	64.9%	50.5%	7.9%	70.0%	2.35	168,829	18%	0.45
MONTANA	84.0%	69.9%	62.8%	52.8%	9.3%	89.1%	2.67	32,032	21%	0.13
NEBRASKA	87.8%	103.0%	47.9%	69.4%	6.2%	83.1%	2.81	81,202	28%	0.42
NEVADA	73.5%	88.5%	127.7%	137.1%	2.9%	99.3%	2.44	43,368	19%	0.61
NEW HAMPSHIRE	77.4%	66.1%	9.2%	24.0%	37.0%	51.0%	1.73	26,669	50%	0.31
NEW JERSEY	80.1%	79.4%	59.5%	37.8%	2.6%	79.7%	1.60	237;297	14%	0.58
NEW MEXICO	73.6%	57.3%	77.3%	40.9%	14.7%	96.7%	2.85	66,059	26%	0.33
NEW YORK	72.8%	80.7%	67.0%	56.0%	4.1%	56.3%	2.19	563,251	17%	0.57
NORTH CAROLINA	69.3%	88.9%	15.6%	66.8%	8.8%	81.6%	3.49	267,044	37%	0.71
NORTH DAKOTA	81.5%	78.3%	18.2%	45.3%	29.2%	91.7%	3.73	34,802	38%	0.25
OHIO	83.2%	85.2%	67.3%	37.7%	6.3%	73.7%	2.33	379,164	16%	0.38
OKLAHOMA	71.8%	87.3%	62.0%	75.7%	5.6%	86.8%	3.34	146,827	20%	0.51
OREGON	75.0%	103.1%	60.0%	83.3%	7.8%	86.7%	3.36	119,612	24%	0.64
PENNSYLVANIA	82.5%	66.4%	77.6%	36.7%	8.1%	56.4%	1.74	300,523	25%	0.46
RHODE ISLAND	87.6%	126.5%	63.4%	88.6%	8.7%	50.6%	2.70	35,389	0%	0.58
SOUTH CAROLINA	69.7%	61.7%	27.3%	42.8%	10.6%	80.3%	2.18	105,854	40%	0.44
SOUTH DAKOTA	83.8%	82.2%	42.4%	35.4%	18.5%	71.2%	2.12	23,339	38%	0.00
TENNESSEE	69.6%	60.3%	58.4%	50.0%	6.8%	75.9%	2.29	147,951	23%	0.40
TEXAS	67.8%	95.1%	37.5%	60.6%	7.1%	88.0%	3.11	677,192	18%	0.56
UTAH	77.2%	59.0%	36.8%	89.4%	8.7%	66.8%	2.77	69,426	11%	0.31
VERMONT	85.0%	58.9%	10.7%	25.1%	48.0%	60.0%	2.08	18,844	37%	0.28
VIRGINIA	71.7%	58.5%	46.9%	41.5%	17.4%	85.8%	2.92	250,754	21%	0.67
WASHINGTON	74.8%	52.6%	49.9%	46.2%	7.3%	87.0%	3.14	201,532	23%	0.73
WEST VIRGINIA	76.9%	53.0%	38.2%	38.1%	18.5%	86.8%	2.35	66,531	44%	0.17
WISCONSIN	89.6%	94.2%	15.7%	71.2%	8.2%	66.8%	2.92	238,735	15%	0.46
WYOMING	79.8%	95.1%	24.3%	74.0%	15.9%	100.0%	3.04	24,204	47%	0.77
UNITED STATES	74.1%	83.2%	67.7%	52.8%	8.4%	77.3%	2.68	184,808	19%	0.57

Table 1. State level data base.

State	#21 Amount	#21 Percent	#22 Amount	#22 Percent	#23 Ratio	#24 Ratio	#25 Ratio	#26 Ratio	#27 Amount	#28 Adj SSI	#28 Adj SSI & CPS	#29 Percent	#30 Amount	#30 Adj SSI	#30 Adj SSI & CPS
ALABAMA	$450	4.0%	$230	82.5%	0.75	0.45	0.95	3.25	$3,005	$2,948	$3,134	25.5%	$4,031	$3,952	$4,204
ALASKA	$641	3.6%	$43	77.6%	1.07	0.69	1.39	2.08	$9,743	$10,044	$8,686	11.4%	$10,998	$11,338	$9,690
ARIZONA	$481	3.6%	$86	97.5%	0.79	0.14	1.28	2.71	$3,639	$3,499	$3,607	20.3%	$4,568	$4,392	$4,528
ARKANSAS	$542	4.9%	$215	52.0%	0.31	0.39	1.05	3.62	$3,438	$3,243	$3,467	23.4%	$4,469	$4,236	$4,554
CALIFORNIA	$100	0.6%	$547	97.9%	0.91	0.19	0.94	2.95	$4,667	$5,186	$5,084	9.6%	$5,164	$5,738	$5,626
COLORADO	$704	4.6%	$531	88.5%	0.46	0.47	0.93	1.90	$2,673	$2,498	$2,575	40.6%	$4,499	$4,204	$4,334
CONNECTICUT	$604	3.1%	$451	100.0%	0.63	0.25	1.76	2.92	$5,158	$5,056	$4,816	20.9%	$6,524	$6,396	$6,092
DELAWARE	$627	4.2%	$169	100.0%	0.33	0.44	0.75	3.13	$4,314	$3,625	$3,662	40.4%	$7,238	$6,083	$6,144
DIST COLUMBIA	$496	2.6%	$201	100.0%	0.70	0.11	1.50	3.67	$8,719	$8,632	$8,463	8.5%	$9,530	$9,436	$9,251
FLORIDA	$580	4.0%	$382	87.1%	1.62	0.29	0.91	2.85	$3,147	$3,278	$3,460	19.9%	$3,926	$4,090	$4,305
GEORGIA	$780	5.8%	$502	53.6%	0.34	0.53	1.22	3.83	$4,387	$4,138	$4,223	22.7%	$5,675	$5,354	$5,463
HAWAII	$240	1.6%	$208	100.0%	1.06	0.35	1.34	4.82	$7,876	$7,293	$6,630	7.5%	$8,512	$7,881	$7,165
IDAHO	$855	7.6%	$50	43.8%	0.74	0.40	1.41	4.00	$3,974	$3,714	$3,790	13.3%	$4,585	$4,285	$4,372
ILLINOIS	$639	4.1%	$1,110	84.8%	1.12	0.21	1.12	2.47	$3,567	$3,715	$3,643	19.2%	$4,413	$4,598	$4,508
INDIANA	$1,353	10.3%	$640	55.0%	0.48	0.40	1.13	3.08	$3,601	$3,215	$3,281	32.8%	$5,358	$4,784	$4,881
IOWA	$936	7.0%	$703	47.5%	1.20	0.31	1.35	2.69	$3,561	$3,208	$3,307	30.6%	$5,135	$4,626	$4,769
KANSAS	$566	3.9%	$200	69.6%	0.59	0.41	1.36	2.44	$3,253	$3,012	$3,171	25.5%	$4,368	$4,044	$4,257
KENTUCKY	$520	4.6%	$299	32.5%	0.43	0.43	0.97	3.79	$3,611	$3,344	$3,519	25.1%	$4,820	$4,463	$4,698
LOUISIANA	$356	3.2%	$49	52.6%	0.17	0.45	1.05	2.34	$2,956	$2,763	$2,970	32.2%	$4,359	$4,074	$4,381
MAINE	$860	6.7%	$144	67.4%	0.74	0.43	0.66	3.44	$4,497	$4,636	$4,829	25.3%	$6,018	$6,204	$6,462
MARYLAND	$814	4.8%	$165	93.9%	0.61	0.29	1.15	2.35	$3,495	$3,530	$3,530	29.5%	$4,955	$5,005	$5,005
MASSACHUSETTS	$857	4.8%	$1,020	99.8%	0.71	0.30	0.99	2.95	$4,978	$5,080	$4,618	22.3%	$6,409	$6,539	$5,945
MICHIGAN	$793	5.4%	$562	83.3%	0.77	0.33	1.24	2.28	$3,631	$3,595	$3,299	34.1%	$5,511	$5,457	$5,006
MINNESOTA	$1,103	7.4%	$1,110	66.7%	0.70	0.43	0.97	2.27	$3,854	$3,816	$3,704	23.0%	$5,002	$4,952	$4,808
MISSISSIPPI	$507	5.2%	$64	38.7%	0.80	0.27	0.87	2.97	$2,684	$2,767	$3,008	32.9%	$3,998	$4,122	$4,480
MISSOURI	$576	4.2%	$186	67.1%	0.42	0.34	0.96	3.14	$3,359	$3,359	$3,499	28.8%	$4,714	$4,714	$4,911
MONTANA	$406	3.4%	$40	46.8%	0.17	0.62	0.51	2.45	$3,323	$3,323	$3,426	21.6%	$4,251	$4,251	$4,383
NEBRASKA	$657	4.8%	$54	51.4%	0.65	0.34	1.51	2.15	$2,628	$2,389	$2,568	29.7%	$3,736	$3,397	$3,652
NEVADA	$619	4.0%	$47	88.2%	0.57	0.45	0.88	3.15	$4,122	$4,480	$4,571	20.8%	$5,202	$5,654	$5,770
NEW HAMPSHIRE	$1,387	8.7%	$115	97.0%	0.53	0.59	0.41	2.42	$2,464	$2,200	$2,179	56.3%	$5,635	$5,031	$4,981
NEW JERSEY	$846	4.5%	$750	98.0%	0.62	0.30	1.03	3.00	$5,163	$5,378	$4,980	24.5%	$6,840	$7,125	$6,598
NEW MEXICO	$372	3.3%	$86	79.5%	0.53	0.46	1.67	3.44	$4,129	$3,470	$3,731	14.9%	$4,853	$4,078	$4,385
NEW YORK	$1,227	7.2%	$2,302	95.3%	1.12	0.33	0.96	2.64	$5,852	$6,293	$5,471	15.2%	$6,900	$7,419	$6,452
NORTH CAROLINA	$174	1.4%	$637	64.8%	0.86	0.30	0.99	3.41	$3,841	$3,919	$4,169	13.8%	$4,455	$4,545	$4,836
NORTH DAKOTA	$948	7.6%	$92	58.0%	0.72	0.43	0.52	2.39	$3,145	$3,145	$3,311	28.2%	$4,380	$4,380	$4,611
OHIO	$1,002	7.2%	$546	82.5%	0.56	0.35	1.25	2.44	$3,194	$3,042	$3,042	35.1%	$4,919	$4,685	$4,685
OKLAHOMA	$475	3.9%	$540	65.2%	0.46	0.37	1.36	2.07	$2,586	$2,417	$2,518	19.8%	$3,227	$3,016	$3,141
OREGON	$623	4.7%	$387	79.8%	0.71	0.25	0.96	2.62	$3,531	$3,531	$3,395	26.5%	$4,742	$4,742	$4,559
PENNSYLVANIA	$1,020	7.2%	$721	89.7%	0.56	0.42	1.00	2.97	$3,825	$3,714	$3,471	38.3%	$6,196	$6,016	$5,622
RHODE ISLAND	$830	5.7%	$829	86.5%	0.55	0.26	0.94	2.67	$3,893	$3,604	$3,400	29.1%	$5,491	$5,084	$4,796
SOUTH CAROLINA	$555	4.9%	$482	69.1%	0.59	0.36	1.09	4.38	$4,509	$4,294	$4,520	25.5%	$6,050	$5,762	$6,065
SOUTH DAKOTA	$1,298	11.0%	$74	28.0%	0.13	0.61	0.73	2.59	$2,601	$2,525	$2,658	30.9%	$3,764	$3,654	$3,847
TENNESSEE	$564	4.7%	$279	60.1%	0.43	0.40	0.96	4.64	$4,453	$4,323	$4,549	23.6%	$5,829	$5,660	$5,965
TEXAS	$324	2.4%	$457	76.2%	0.61	0.30	1.46	2.55	$3,031	$3,031	$3,157	21.5%	$3,852	$3,852	$4,013
UTAH	$812	7.4%	$416	76.6%	0.70	0.36	0.92	3.12	$3,867	$3,422	$3,565	21.6%	$4,944	$4,375	$4,557
VERMONT	$1,895	14.2%	$1,219	57.0%	0.24	0.69	0.51	1.62	$2,063	$1,734	$1,734	69.1%	$6,685	$5,618	$5,618
VIRGINIA	$804	5.2%	$287	46.1%	0.43	0.58	1.10	3.09	$3,672	$3,565	$3,752	28.6%	$5,155	$5,005	$5,268
WASHINGTON	$699	4.7%	$223	90.4%	1.15	0.66	0.84	2.63	$3,550	$3,622	$3,696	22.3%	$4,571	$4,664	$4,759
WEST VIRGINIA	$610	5.8%	$398	47.2%	0.34	0.48	1.16	2.63	$2,926	$2,684	$2,739	28.1%	$4,069	$3,733	$3,809
WISCONSIN	$1,093	7.9%	$502	66.5%	0.65	0.30	0.95	2.27	$3,609	$3,538	$3,503	30.2%	$5,167	$5,066	$5,015
WYOMING	$422	3.3%	$37	51.3%	1.03	0.31	0.81	2.66	$6,826	$6,440	$6,708	10.4%	$7,620	$7,189	$7,489
UNITED STATES	$604	4.1%	$640	79.3%	0.73	0.31	1.08	2.76	$3,890	$3,890	$3,890	23.2%	$5,064	$5,064	$5,064

Table 2. Basic Data.

	Population		High school		Enrollment				Finance					
State	18-24 year old pop (000) July 1988	18-year old resident population July 1988	Public and private high school graduates Sp 1984	Sp 1985	Higher education enrollment fall 1985 public institutions	private inst's	Public FTE enrollment 1986-87	Enrollment noncollegiate postsecondary schools, 1981	Personal income per capita 1988	Undergraduate state grant aid 1986-87 (thousands)	State & local education appropriations (000,000) 1986-87	Tuition Revenues 1986-87 (000,000)	System Support Index 88 SSI	Cost of Public Services CPS 1988
	A	B	C		D	E	F	G	H	I	J	K	L	M
ALABAMA	478	62,000	45,411	42,818	150,800	20,655	139,287	30,351	$11,338	$9,860	$410.5	$103.0	102	94
ALASKA	88	8,000	5,457	5,614	26,510	900	14,105	3,899	$17,786	$241	$130.2	$17.8	97	117
ARIZONA	378	48,000	26,530	27,533	202,036	14,818	110,130	45,015	$13,474	$2,378	$433.5	$110.7	104	97
ARKANSAS	271	36,000	27,936	26,527	66,123	11,835	56,785	13,776	$11,073	$5,703	$195.2	$59.7	106	93
CALIFORNIA	3,028	371,000	299,024	239,786	1,444,207	206,232	968,289	248,827	$16,906	$131,146	$4,510.1	$481.5	90	102
COLORADO	375	47,000	32,954	32,621	142,031	19,283	114,120	44,486	$15,234	$17,331	$305.0	$200.4	107	97
CONNECTICUT	303	47,000	46,509	42,000	98,816	60,732	58,690	38,593	$19,600	$18,928	$302.7	$80.2	102	105
DELAWARE	78	9,000	8,110	7,131	27,933	3,950	21,372	7,115	$15,010	$1,208	$92.2	$82.5	119	99
DIST COLUMBIA	71	8,000	5,702	5,278	12,747	66,121	7,765	28,906	$19,397	$1,059	$87.7	$6.3	101	102
FLORIDA	1,207	152,000	93,073	91,102	362,241	89,151	266,367	121,482	$14,646	$34,051	$838.2	$207.6	96	95
GEORGIA	744	96,000	63,218	61,445	140,956	47,870	126,509	75,842	$13,446	$18,537	$554.0	$183.0	106	98
HAWAII	129	15,000	13,661	12,511	43,246	8,891	28,314	6,051	$14,886	$2,597	$223.8	$18.0	108	110
IDAHO	118	15,000	11,989	12,318	33,666	9,002	30,952	3,300	$11,223	$810	$123.0	$18.9	107	98
ILLINOIS	1,317	168,000	141,035	132,772	520,224	158,465	350,788	59,922	$15,586	$147,434	$1,251.1	$296.7	96	102
INDIANA	648	84,000	69,344	63,914	193,033	56,734	152,004	30,993	$13,136	$40,982	$547.4	$267.0	112	96
IOWA	322	41,000	36,989	37,184	109,765	43,132	95,880	8,932	$13,348	$26,148	$330.9	$140.5	111	97
KANSAS	278	34,000	28,780	27,137	127,220	14,139	92,009	28,350	$14,650	$5,430	$299.3	$102.8	108	95
KENTUCKY	448	57,000	43,536	40,896	118,036	30,888	91,000	28,077	$11,230	$12,233	$328.6	$110.0	108	95
LOUISIANA	552	71,000	48,052	44,981	153,173	24,003	117,934	55,822	$11,193	$2,286	$348.6	$165.6	107	93
MAINE	136	18,000	15,005	14,773	33,188	19,813	28,239	5,698	$12,790	$2,132	$110.0	$39.9	97	96
MARYLAND	530	69,000	57,335	53,128	198,992	32,657	142,931	17,936	$16,884	$8,774	$499.5	$200.7	99	100
MASSACHUSETTS	705	89,000	82,441	70,000	185,682	235,573	124,550	41,369	$17,722	$80,449	$820.0	$178.2	99	110
MICHIGAN	1,083	144,000	125,886	121,000	434,278	73,023	321,116	122,981	$14,775	$58,015	$1,168.1	$883.6	101	109
MINNESOTA	497	62,000	59,593	56,149	173,984	47,178	180,385	68,993	$14,994	$62,346	$818.0	$184.1	101	103
MISSISSIPPI	326	43,000	30,881	27,752	98,704	10,478	84,715	2,912	$9,716	$1,775	$227.4	$111.3	97	92
MISSOURI	578	73,000	60,300	55,204	188,829	72,317	129,667	39,188	$13,709	$10,291	$435.5	$175.0	100	96
MONTANA	88	12,000	10,224	10,079	32,032	3,926	26,932	6,419	$11,803	$401	$89.5	$25.0	108	97
NEBRASKA	182	23,000	19,381	20,202	81,202	16,567	56,821	9,277	$13,742	$1,893	$148.3	$63.0	110	93
NEVADA	104	12,000	9,096	8,816	43,368	288	21,472	11,612	$15,437	$414	$88.5	$23.2	92	98
NEW HAMPSHIRE	122	16,000	13,000	12,381	26,669	25,614	21,385	1,263	$15,911	$1,422	$52.7	$87.8	112	101
NEW JERSEY	863	114,000	99,588	91,281	237,297	60,381	148,116	59,239	$18,626	$68,428	$754.4	$245.1	96	100
NEW MEXICO	178	23,000	18,978	18,920	66,059	2,236	46,193	13,117	$11,422	$1,481	$199.0	$34.9	119	93
NEW YORK	2,034	264,000	205,981	192,292	563,251	436,847	421,702	137,896	$17,111	$442,627	$2,467.6	$442.1	93	115
NORTH CAROLINA	767	99,000	69,475	68,609	267,844	80,244	239,397	10,851	$12,438	$43,732	$919.5	$148.9	99	94
NORTH DAKOTA	88	10,000	8,121	8,149	34,802	3,137	30,365	1,684	$12,472	$748	$95.5	$37.5	100	95
OHIO	1,215	160,000	148,000	133,176	379,164	135,581	310,010	98,292	$13,933	$72,739	$992.8	$538.2	105	100
OKLAHOMA	370	48,000	35,254	34,452	148,027	22,348	115,073	21,841	$12,283	$10,813	$297.6	$73.7	107	96
OREGON	288	37,000	28,947	27,746	119,612	18,355	93,190	17,299	$13,328	$10,729	$328.9	$112.8	100	104
PENNSYLVANIA	1,328	175,000	154,744	144,350	300,523	232,675	251,524	120,020	$14,249	$104,148	$982.1	$596.4	103	107
RHODE ISLAND	110	15,000	11,250	10,146	35,389	34,538	27,410	7,139	$14,579	$8,412	$106.7	$43.8	108	106
SOUTH CAROLINA	425	53,000	37,483	36,921	105,854	26,048	80,348	10,208	$11,299	$17,796	$362.3	$123.8	105	95
SOUTH DAKOTA	81	10,000	8,384	8,382	23,339	9,433	17,881	3,941	$11,814	$620	$88.3	$20.7	103	95
TENNESSEE	553	71,000	54,848	49,421	147,951	46,894	113,290	31,571	$12,002	$13,787	$504.5	$155.9	103	93
TEXAS	1,937	240,000	188,000	188,097	677,192	92,500	523,000	63,348	$13,478	$76,865	$1,585.1	$429.5	100	98
UTAH	198	26,000	19,618	20,073	69,428	34,568	55,647	7,226	$10,981	$8,343	$215.2	$59.9	113	96
VERMONT	67	8,000	7,200	6,980	18,844	12,572	14,151	771	$13,348	$8,287	$29.2	$65.4	119	100
VIRGINIA	717	88,000	66,560	63,113	250,754	41,662	184,193	31,203	$15,408	$18,127	$676.3	$273.2	103	95
WASHINGTON	489	64,000	47,327	47,872	201,532	30,021	150,397	23,638	$15,009	$10,665	$533.9	$153.5	99	99
WEST VIRGINIA	214	29,000	23,309	22,293	66,531	10,126	52,328	8,898	$10,576	$8,871	$153.1	$59.8	109	98
WISCONSIN	563	72,000	60,541	64,522	238,735	36,334	188,660	10,751	$13,909	$32,408	$680.8	$294.9	102	101
WYOMING	58	7,000	5,764	5,587	24,204	0	16,994	1,399	$12,781	$204	$116.8	$13.5	106	96
UNITED STATES	27,739	3,554,000	2,786,811	2,632,190	8,425,221	2,787,788	7,047,214	1,887,475	$14,841	$1,683,618	$27,415.8	$8,268.1	100	100

Table 3 Migration, College Starting, Retention Profiles--Historical Data Computations

State	814 ATTRACTIVENESS TO RESIDENTS: Resident first-time freshmen (as a percent of high school graduates) remaining in home state to attend PUBLIC Institutions (b/g)				PRIVATE Institutions (c/g)				Percent of resident first-time freshmen migrating to attend-- PUBLIC Institutions (d/a)				PRIVATE Institutions (e/a)				815 ATTRACTIVENESS TO NON-RESIDENTS: Non-resident as a percent of total first-time freshmen at state public inst's f/(b+f)			
	1979	1981	1984	1986	1979	1981	1984	1986	1979	1981	1984	1986	1979	1981	1984	1986	1979	1981	1984	1986
ALABAMA	53.7	53.9	60.6	57.9	7.4	8.0	5.9	5.8	4.1	4.5	3.6	3.7	4.1	4.2	3.8	3.9	16.2	16.2	16.6	16.9
ALASKA	58.8	15.0	18.4	19.5	2.7	2.5	3.8	2.1	21.2	35.0	33.6	34.4	12.1	22.7	22.1	22.9	5.3	12.8	9.8	7.7
ARIZONA	117.2	140.8	146.8	183.3	3.5	2.5	5.0	2.5	3.4	3.7	1.8	1.1	3.3	3.2	3.3	2.5	17.2	18.0	11.0	11.9
ARKANSAS	47.2	44.1	44.3	40.4	8.7	7.7	6.1	5.6	8.8	7.8	10.2	11.8	4.9	4.9	5.1	5.6	9.2	9.1	9.5	9.4
CALIFORNIA	114.6	112.1	98.3	97.1	5.6	5.6	5.8	4.9	1.5	2.2	2.6	1.7	1.6	1.7	4.2	2.5	5.4	6.1	4.3	5.5
COLORADO	56.3	63.8	57.4	8.1	3.1	4.2	2.3	8.7	8.2	6.9	6.9	40.8	9.4	9.6	12.2	55.8	17.1	18.3	19.8	97.8
CONNECTICUT	38.9	58.5	48.2	47.7	16.1	15.8	18.8	8.7	8.2	7.5	7.2	7.9	25.9	22.8	23.7	25.7	5.7	5.4	5.8	5.1
DELAWARE	52.8	48.3	41.2	58.8	5.8	6.8	9.8	18.9	9.8	18.4	12.5	18.5	14.5	18.1	18.9	14.4	38.4	38.6	44.8	48.5
DIST COLUMBIA	58.1	68.8	18.9	48.5	14.4	13.5	12.5	8.8	15.5	14.7	25.8	18.2	15.9	14.6	24.1	18.9	3.7	8.9	37.1	13.8
FLORIDA	56.8	58.8	54.6	48.8	8.4	8.7	8.1	8.2	8.7	8.8	8.3	7.2	8.1	7.5	8.8	9.2	11.7	9.5	18.8	9.5
GEORGIA	33.8	34.5	35.8	37.8	8.4	18.5	9.8	7.2	11.8	9.5	8.3	9.8	8.7	8.2	8.1	9.3	11.4	12.8	18.5	9.9
HAWAII	51.8	52.2	49.1	58.9	3.8	4.1	5.7	9.2	9.4	9.9	7.5	7.2	11.6	18.9	11.5	18.6	5.2	5.2	4.3	3.9
IDAHO	45.8	45.5	42.3	38.8	18.1	18.8	8.7	8.7	11.7	11.8	9.9	11.3	7.8	8.1	18.2	11.8	14.2	15.8	11.4	15.8
ILLINOIS	68.9	77.8	58.5	68.5	11.7	11.8	11.5	11.7	8.8	8.7	9.2	8.1	8.8	8.8	8.1	8.5	2.2	1.8	2.5	1.5
INDIANA	38.1	52.8	49.8	43.4	8.8	9.4	8.8	7.2	5.8	4.8	4.3	5.8	8.8	5.7	5.7	8.7	12.8	18.1	11.3	12.3
IOWA	49.7	56.2	57.3	57.5	11.8	11.8	13.2	18.6	8.8	7.1	8.8	7.2	5.8	5.8	5.8	5.4	9.2	11.8	11.8	11.4
KANSAS	78.5	72.3	81.8	65.2	5.9	5.5	8.4	3.7	3.8	4.1	2.8	3.6	4.5	5.4	4.3	5.8	13.8	12.8	18.8	14.1
KENTUCKY	41.8	48.8	37.7	48.8	11.8	11.8	18.9	9.8	5.1	5.4	5.7	4.8	5.4	8.7	8.8	8.7	11.9	12.4	18.2	18.7
LOUISIANA	47.7	48.4	54.2	48.8	4.1	4.3	5.3	5.1	5.8	4.4	4.9	6.2	3.1	3.3	3.4	4.2	7.2	18.3	18.4	7.8
MAINE	29.7	34.8	37.1	34.5	7.4	18.5	11.5	9.1	8.8	8.8	7.8	7.1	19.8	16.9	16.1	28.6	15.8	12.1	11.3	12.1
MARYLAND	56.3	68.8	64.6	61.2	4.8	4.3	3.6	3.4	7.8	9.1	7.4	8.8	12.1	11.8	12.8	12.8	5.8	8.7	13.5	18.9
MASSACHUSETTS	44.8	44.8	37.8	35.2	38.3	31.4	26.5	25.6	5.8	5.4	5.4	5.6	11.6	12.1	13.7	14.2	5.1	6.1	6.8	7.1
MICHIGAN	85.2	81.5	58.8	68.8	7.8	8.2	18.3	8.8	2.8	3.7	3.1	3.3	3.4	4.3	4.2	3.8	4.5	4.4	5.8	5.2
MINNESOTA	48.5	42.8	23.8	58.8	8.8	18.1	8.7	8.8	11.1	11.8	17.2	11.8	5.5	6.8	8.8	5.5	7.4	8.2	13.8	18.2
MISSISSIPPI	84.5	78.2	77.8	64.8	8.1	5.8	5.8	4.8	3.2	3.8	3.3	3.8	2.5	2.1	2.8	3.2	8.5	8.8	8.4	11.7
MISSOURI	44.8	48.2	58.5	42.1	7.8	8.3	7.5	9.1	6.8	6.8	6.8	7.8	8.5	6.6	8.8	8.8	8.8	8.1	7.8	8.8
MONTANA	43.5	45.8	52.8	43.8	3.4	7.8	8.5	8.8	9.8	9.8	7.3	9.5	18.8	9.9	8.8	13.3	12.1	18.8	9.3	7.8
NEBRASKA	78.7	82.1	88.4	57.5	7.8	18.5	11.1	8.8	5.3	5.5	8.3	7.2	4.6	4.3	5.1	8.6	4.3	5.1	6.2	8.1
NEVADA	48.8	48.8	137.1	88.8	8.3	8.3	8.3	8.5	25.8	18.8	5.1	18.2	18.3	9.1	4.1	8.8	12.4	11.8	2.8	8.3
NEW HAMPSHIRE	28.8	31.1	24.8	27.8	11.8	13.8	12.8	4.8	14.1	15.1	14.4	16.3	21.4	28.2	24.8	29.8	31.6	29.3	37.8	37.2
NEW JERSEY	43.8	48.5	37.8	38.8	8.4	8.1	4.4	5.7	18.3	18.8	13.8	13.1	22.4	22.8	27.2	26.5	2.8	2.5	2.8	4.7
NEW MEXICO	35.3	41.8	48.8	42.7	1.7	1.3	8.7	8.3	18.5	13.1	12.9	11.2	9.8	18.8	18.2	7.7	15.3	14.3	16.7	16.8
NEW YORK	46.3	58.3	58.8	48.4	21.7	21.3	28.4	28.2	5.5	4.4	4.4	5.8	18.4	9.8	9.5	11.8	2.8	18.2	4.1	3.8
NORTH CAROLINA	88.3	87.8	88.8	88.5	13.3	12.7	9.8	18.8	2.3	2.7	2.1	2.3	2.8	3.8	2.8	2.8	8.5	7.7	8.8	8.7
NORTH DAKOTA	58.2	63.3	45.3	72.1	2.3	3.3	1.5	3.2	8.8	18.1	11.7	8.7	5.1	6.2	7.8	4.8	18.5	21.8	28.2	21.2
OHIO	43.7	48.8	37.7	38.8	8.8	18.8	8.8	8.2	5.8	5.8	5.8	6.2	6.2	5.8	6.8	7.1	5.4	5.8	6.3	6.3
OKLAHOMA	85.8	78.7	75.7	68.1	4.7	5.5	8.8	4.5	4.4	4.3	3.8	4.2	3.7	3.8	3.4	4.8	8.8	8.8	5.8	5.5
OREGON	115.8	88.2	83.3	64.8	4.3	4.8	8.8	4.8	2.8	3.8	3.3	3.8	4.1	5.2	6.2	8.8	7.4	7.8	7.8	8.8
PENNSYLVANIA	32.8	35.5	38.7	33.8	13.6	18.6	17.3	13.1	8.6	8.8	8.3	7.4	8.7	8.8	8.7	8.6	6.2	7.8	8.1	8.7
RHODE ISLAND	48.5	72.2	88.6	38.8	16.8	22.5	18.5	13.8	8.8	4.6	5.2	8.1	15.7	12.2	11.8	21.6	12.4	11.8	8.7	21.5
SOUTH CAROLINA	63.5	54.1	42.8	58.8	13.9	12.8	12.1	11.1	3.7	4.5	4.4	5.2	4.6	4.8	5.8	8.8	8.5	8.1	18.6	11.8
SOUTH DAKOTA	38.8	38.8	35.4	41.5	11.1	15.8	14.8	11.8	18.6	11.8	13.3	15.7	7.8	18.7	8.8	7.2	16.8	19.1	18.5	18.8
TENNESSEE	54.8	48.5	58.8	38.5	18.2	11.2	7.8	7.3	5.8	8.8	8.8	8.1	4.1	4.4	4.6	8.4	8.1	5.7	8.8	8.3
TEXAS	74.4	73.4	68.8	52.1	5.8	5.8	5.8	5.3	2.2	2.5	2.3	2.8	1.8	2.8	2.4	3.2	8.8	5.7	7.1	5.8
UTAH	82.5	84.2	88.4	43.1	8.4	7.2	7.8	8.7	2.6	2.9	1.4	2.8	4.1	4.9	3.3	7.4	13.2	11.8	8.7	9.9
VERMONT	22.1	23.4	25.1	28.8	11.4	12.7	16.1	13.3	12.9	14.8	11.9	18.7	21.4	22.4	21.4	23.8	48.4	42.5	48.8	48.3
VIRGINIA	37.7	38.2	41.5	41.9	6.2	6.2	5.9	3.7	8.6	9.9	8.4	9.1	11.2	11.7	18.7	12.9	14.8	15.1	17.4	17.8
WASHINGTON	42.1	45.8	46.2	123.8	5.8	6.1	4.8	5.8	6.1	5.9	4.7	2.5	7.7	7.1	9.8	3.9	12.2	7.5	7.3	7.8
WEST VIRGINIA	47.1	42.7	38.1	44.2	5.8	6.9	6.5	5.2	6.1	6.6	6.4	7.1	5.2	6.8	7.8	6.2	19.5	22.9	18.5	18.2
WISCONSIN	69.1	75.8	71.2	64.8	5.2	5.7	5.4	6.8	4.8	3.8	3.8	4.6	4.2	4.8	4.4	4.8	8.8	9.2	8.2	9.7
WYOMING	68.3	78.5	74.8	69.7	8.8	8.8	8.8	8.8	18.3	18.8	8.7	9.3	9.7	8.8	7.3	18.3	17.3	15.7	15.9	13.7
UNITED STATES	58.9	61.6	52.8	54.9	8.8	18.4	18.8	8.6	5.3	5.8	5.8	6.8	6.9	6.8	7.9	7.9	7.7	8.3	8.4	8.4

Table 3 cont. College Starting Rate

State	Ratio of first-time freshmen at state public institutions to high school graduates (h/g)							B12 COLLEGE STARTING RATE Resident first-time freshmen attending college anywhere as a percent of high school graduates (h/g)(100-B15)/(b/a)			
	1979	1981	1982	1983	1984	1985	1986	1979	1981	1984	1986
ALABAMA	64.0	64.9	62.2	73.0	67.7	77.5		87.2	88.7	88.4	
ALASKA	63.0	18.1	20.3	24.0	19.6	23.2		95.3	44.5	47.7	
ARIZONA	172.2	259.9	270.3	184.4	201.6	156.8		157.4	232.9	273.0	
ARKANSAS	59.3	49.4	47.2	46.8	49.3	50.5		82.8	80.4	80.0	
CALIFORNIA	121.3	126.0	111.1	97.8	98.3	98.8		126.3	128.0	109.1	
COLORADO	72.7	75.0	68.3	71.7	67.8	70.6		75.3	77.2	69.9	
CONNECTICUT	43.6	57.1	50.0	52.8	53.2	54.6		85.9	102.0	89.3	
DELAWARE	74.4	70.7	69.7	64.0	73.2	70.2		75.7	76.9	72.9	
DIST COLUMBIA	62.1	72.4	76.8	59.8	65.7	61.1		94.1	112.4	136.6	
FLORIDA	65.5	72.9	64.7	67.7	63.4	69.3		77.9	88.3	73.8	
GEORGIA	36.8	40.1	42.6	40.4	39.3	40.2		51.1	55.9	52.9	
HAWAII	54.9	55.1	57.1	63.1	51.2	51.5		70.7	71.1	67.8	
IDAHO	47.8	51.8	47.2	46.8	51.9	51.1		61.4	65.7	69.3	
ILLINOIS	71.8	86.3	87.9	88.5	82.8	88.8		94.5	111.3	89.8	
INDIANA	58.2	58.3	59.9	61.4	57.2	59.4		81.5	85.2	86.2	
IOWA	55.7	64.9	67.8	70.1	68.7	70.8		72.4	78.7	83.8	
KANSAS	76.3	98.8	84.8	88.5	100.7	89.7		78.5	82.8	104.3	
KENTUCKY	48.1	48.8	48.8	42.8	42.8	42.8		57.3	58.2	58.4	
LOUISIANA	58.3	55.1	63.3	63.7	68.6	58.6		55.2	58.3	65.8	
MAINE	35.3	39.7	37.8	43.3	42.8	48.8		51.2	68.6	64.7	
MARYLAND	69.7	68.3	69.2	68.8	68.8	68.1		75.2	84.6	78.9	
MASSACHUSETTS	49.7	58.8	58.8	52.5	45.5	45.8		95.2	98.8	89.2	
MICHIGAN	68.3	88.9	75.4	87.5	73.9	73.7		78.1	78.8	88.8	
MINNESOTA	44.8	47.2	48.5	51.1	55.8	63.8		58.3	64.8	89.8	
MISSISSIPPI	91.3	88.4	102.4	102.8	94.2	98.8		98.9	91.6	96.6	
MISSOURI	46.4	52.5	58.8	51.6	47.5	58.6		57.8	78.2	82.8	
MONTANA	48.7	58.2	49.2	54.5	54.7	55.2		58.1	84.8	69.9	
NEBRASKA	88.8	76.4	88.1	79.2	83.8	84.8		94.5	98.7	103.8	
NEVADA	42.8	43.8	85.5	118.8	82.8	131.8		57.3	54.7	88.5	
NEW HAMPSHIRE	43.3	37.2	48.7	42.2	41.8	48.4		62.8	58.8	86.1	
NEW JERSEY	45.8	48.8	45.7	45.2	43.6	44.2		78.8	84.2	78.4	
NEW MEXICO	41.8	48.4	51.8	48.8	58.8	55.8		58.1	55.7	57.3	
NEW YORK	48.3	48.8	47.7	48.3	58.5	51.8		82.8	88.8	88.7	
NORTH CAROLINA	75.2	76.8	72.1	71.1	88.8	88.8		86.7	88.3	88.9	
NORTH DAKOTA	73.8	82.8	83.8	88.8	87.1	88.5		72.7	81.2	78.3	
OHIO	48.2	51.3	48.8	47.8	48.1	58.8		63.4	67.1	65.2	
OKLAHOMA	71.8	75.8	78.2	88.4	77.2	77.6		77.1	83.8	87.3	
OREGON	124.7	118.4	186.7	188.1	94.4	98.8		128.8	118.4	183.1	
PENNSYLVANIA	35.8	38.5	48.9	42.1	41.7	48.4		58.4	61.7	66.4	
RHODE ISLAND	55.2	88.7	82.8	88.8	85.4	44.8		84.1	113.4	126.5	
SOUTH CAROLINA	78.8	88.3	86.8	81.1	48.4	59.8		85.7	74.8	61.7	
SOUTH DAKOTA	44.8	48.7	48.8	48.8	43.2	44.7		57.8	78.5	82.2	
TENNESSEE	63.8	81.9	52.8	54.4	58.8	48.8		77.3	87.8	88.3	
TEXAS	88.5	88.8	82.3	86.3	88.1	83.5		92.5	88.8	95.1	
UTAH	72.7	72.8	68.7	66.4	56.8	47.2		76.7	77.5	58.8	
VERMONT	41.1	41.1	45.2	41.4	48.3	48.8		51.1	57.3	58.9	
VIRGINIA	44.4	45.1	44.8	45.7	58.1	55.1		55.4	56.8	58.5	
WASHINGTON	37.8	37.4	44.3	45.3	44.5	43.2		42.2	47.4	52.6	
WEST VIRGINIA	53.7	57.8	51.7	51.2	48.1	53.8		54.7	58.8	53.8	
WISCONSIN	78.2	88.3	81.8	85.2	87.7	78.4		82.1	88.3	94.2	
WYOMING	73.3	83.4	89.7	93.3	95.8	94.8		75.7	86.7	95.1	
UNITED STATES	65.1	68.4	66.3	66.1	66.1	65.8		79.8	83.7	83.2	

Table 3 cont. Progress Emphasis and Retention

State	820 INSTITUTIONAL TYPE Ratio of public 2-year college enrollment to total public undergraduate enrollment (j/i)			824 2-YEAR PROGRAM EMPHASIS Ratio of associate degrees and awards to bachelor degrees (k/l)			825 GRADUATION PROFILE Ratio of bachelor degrees to first-time freshmen enrollment four years earlier public institutions (l/h)				826 GRADUATE EDUCATION EMPHASIS Ratio of fall graduate enrollment to bachelor degrees awarded spring same year (m/l)			
	Fall 84	Fall 85	Fall 86	1983-84	1984-85	1985-86	1983/79	1984/80	1985/81	1986/82	1983/83	1984/84	1985/85	1986/86
ALABAMA	0.38	0.40		0.64	0.73	0.75	0.42	0.39	0.45		0.88	0.89	0.95	
ALASKA	1.41	1.42		1.04	0.99	1.07	0.19	0.08	0.09		1.78	1.64	1.39	
ARIZONA	0.78	0.78		0.78	0.77	0.79	0.19	0.17	0.14		1.38	1.38	1.28	
ARKANSAS	0.23	0.22		0.32	0.34	0.31	0.38	0.38	0.39		0.76	1.02	1.05	
CALIFORNIA	0.85	0.86		1.06	1.05	0.91	0.19	0.19	0.19		0.91	0.94	0.94	
COLORADO	0.41	0.39		0.47	0.46	0.46	0.47	0.46	0.47		0.88	0.90	0.93	
CONNECTICUT	0.53	0.53		0.78	0.73	0.83	0.31	0.29	0.25		1.77	1.78	1.78	
DELAWARE	0.32	0.33		0.35	0.35	0.33	0.43	0.43	0.44		0.87	0.88	0.75	
DIST COLUMBIA	0.00	0.00		0.57	0.64	0.78	0.15	0.08	0.11		1.67	1.56	1.58	
FLORIDA	0.75	0.76		1.77	1.66	1.82	0.32	0.31	0.29		0.84	0.93	0.91	
GEORGIA	0.31	0.29		0.39	0.36	0.34	0.56	0.55	0.53		1.26	1.27	1.22	
HAWAII	0.58	0.60		1.03	1.06	1.06	0.36	0.37	0.35		1.25	1.16	1.34	
IDAHO	0.19	0.19		0.81	0.82	0.74	0.44	0.39	0.40		1.16	1.45	1.41	
ILLINOIS	0.81	0.87		0.98	1.03	1.12	0.24	0.23	0.21		1.07	1.05	1.12	
INDIANA	0.22	0.22		0.54	0.52	0.48	0.46	0.41	0.40		1.19	1.12	1.13	
IOWA	0.43	0.43		1.43	1.24	1.20	0.31	0.30	0.31		1.51	1.47	1.35	
KANSAS	0.45	0.45		0.58	0.59	0.59	0.40	0.39	0.41		1.34	1.34	1.38	
KENTUCKY	0.27	0.28		0.47	0.46	0.43	0.44	0.41	0.43		1.31	1.22	0.97	
LOUISIANA	0.12	0.12		0.17	0.17	0.17	0.47	0.45	0.45		1.32	1.19	1.05	
MAINE	0.19	0.19		0.71	0.76	0.74	0.48	0.44	0.43		0.84	0.83	0.86	
MARYLAND	0.58	0.57		0.89	0.89	0.81	0.34	0.27	0.29		1.09	1.14	1.15	
MASSACHUSETTS	0.00	0.00		0.70	0.71	0.71	0.29	0.25	0.30		1.02	0.99	0.99	
MICHIGAN	0.57	0.56		0.70	0.81	0.77	0.32	0.28	0.33		1.15	1.15	1.24	
MINNESOTA	0.32	0.32		0.62	0.60	0.70	0.45	0.42	0.43		0.92	0.95	0.97	
MISSISSIPPI	0.48	0.47		0.84	0.81	0.80	0.29	0.36	0.27		0.89	0.91	0.87	
MISSOURI	0.40	0.45		0.46	0.45	0.42	0.43	0.40	0.34		0.96	0.94	0.96	
MONTANA	0.12	0.13		0.18	0.18	0.17	0.60	0.58	0.62		0.83	0.51	0.51	
NEBRASKA	0.41	0.42		0.78	0.80	0.85	0.30	0.29	0.34		1.47	1.45	1.51	
NEVADA	0.60	0.61		0.64	0.57	0.57	0.47	0.31	0.45		1.00	0.89	0.80	
NEW HAMPSHIRE	0.31	0.31		0.55	0.60	0.53	0.56	0.53	0.59		0.38	0.43	0.41	
NEW JERSEY	0.50	0.50		0.83	0.83	0.82	0.34	0.30	0.30		0.94	0.98	1.03	
NEW MEXICO	0.32	0.33		0.54	0.47	0.53	0.51	0.45	0.46		1.68	1.64	1.67	
NEW YORK	0.57	0.57		1.10	1.13	1.12	0.32	0.32	0.33		0.95	0.94	0.96	
NORTH CAROLINA	0.83	0.71		0.84	0.89	0.88	0.29	0.31	0.30		0.95	0.95	0.99	
NORTH DAKOTA	0.25	0.25		0.82	0.78	0.72	0.44	0.38	0.43		0.54	0.61	0.52	
OHIO	0.39	0.38		0.59	0.57	0.56	0.35	0.33	0.35		1.28	1.24	1.25	
OKLAHOMA	0.49	0.51		0.39	0.38	0.46	0.38	0.36	0.37		1.46	1.32	1.36	
OREGON	0.66	0.64		0.74	0.77	0.71	0.23	0.21	0.25		0.87	0.90	0.90	
PENNSYLVANIA	0.47	0.48		0.61	0.60	0.56	0.43	0.41	0.42		0.97	1.00	1.00	
RHODE ISLAND	0.48	0.56		0.57	0.54	0.55	0.48	0.51	0.28		0.84	0.89	0.94	
SOUTH CAROLINA	0.44	0.44		0.73	0.65	0.59	0.38	0.32	0.36		0.98	0.99	1.00	
SOUTH DAKOTA	0.00	0.00		0.24	0.12	0.13	0.63	0.61	0.61		0.69	0.79	0.73	
TENNESSEE	0.39	0.40		0.49	0.47	0.43	0.34	0.36	0.40		1.05	0.97	0.96	
TEXAS	0.57	0.58		0.84	0.86	0.81	0.27	0.29	0.30		1.51	1.50	1.46	
UTAH	0.31	0.31		0.76	0.71	0.70	0.36	0.37	0.36		0.91	0.92	0.92	
VERMONT	0.24	0.28		0.24	0.23	0.24	0.67	0.63	0.69		0.57	0.55	0.51	
VIRGINIA	0.67	0.67		0.51	0.49	0.43	0.56	0.59	0.58		0.99	1.03	1.10	
WASHINGTON	0.72	0.73		1.16	1.15	1.15	0.70	0.66	0.66		0.76	0.81	0.84	
WEST VIRGINIA	0.18	0.17		0.32	0.34	0.34	0.47	0.50	0.48		1.50	1.23	1.16	
WISCONSIN	0.48	0.48		0.97	0.89	0.85	0.30	0.27	0.30		0.98	0.95	0.95	
WYOMING	0.74	0.77		1.11	1.03	1.03	0.31	0.29	0.31		0.93	0.89	0.81	
UNITED STATES	0.57	0.57		0.77	0.76	0.73	0.32	0.31	0.31		1.07	1.07	1.08	

Table 4 Historical Data--Migration

NOTE: Inconsistencies in reporting preclude use of absolute enrollment counts except for determination of migration rates in tables 1 and 3.

State	Total resident first-time freshmen attending college anywhere (a)				Resident first-time freshmen remaining in home state to attend public institutions (b)				Resident first-time freshmen remaining in home state to attend private institutions (c)				Resident first-time freshmen migrating to attend out-of-state public institutions (d)				Resident first-time freshmen migrating to attend out-of-state private institutions (e)			
	1979	1981	1984	1986	1979	1981	1984	1986	1979	1981	1984	1986	1979	1981	1984	1986	1979	1981	1984	1986
ALABAMA	33,873	32,297	32,573	29,539	27,332	26,188	27,520	24,788	3,787	3,388	2,683	2,491	1,375	1,466	1,188	1,187	1,379	1,363	1,222	1,153
ALASKA	4,232	2,618	2,715	2,835	2,683	930	1,884	1,896	140	154	198	118	887	934	813	974	512	592	800	849
ARIZONA	42,478	43,878	42,385	55,925	38,492	39,967	38,940	53,211	1,159	717	1,318	885	1,440	1,816	745	894	1,388	1,378	1,382	1,425
ARKANSAS	17,488	17,928	16,849	14,831	13,578	13,335	12,377	10,721	1,938	2,318	1,712	1,474	1,844	1,389	1,783	1,615	856	878	857	821
CALIFORNIA	354,988	335,498	178,342	255,857	327,887	307,892	151,516	232,758	16,851	15,349	15,789	11,721	5,372	7,429	4,843	4,336	5,858	5,828	7,474	8,258
COLORADO	26,281	28,838	26,298	~~6,888~~	20,947	22,888	18,985	~~88~~	1,168	1,517	752	~~888~~	1,822	1,988	1,873	2,143	2,472	2,787	2,988	2,951
CONNECTICUT	48,162	44,482	48,424	35,666	18,281	23,552	22,666	28,822	7,282	7,381	5,837	3,847	3,292	3,344	2,922	2,817	18,387	18,195	8,589	8,188
DELAWARE	7,858	8,878	5,948	5,837	4,818	4,388	3,342	3,888	517	533	733	777	892	715	742	813	1,823	1,242	1,123	838
DIST COLUMBIA	8,832	7,284	3,587	4,571	3,893	4,283	1,888	2,455	1,858	874	712	428	1,878	1,887	814	834	1,185	1,848	861	882
FLORIDA	75,138	78,848	88,777	58,827	55,772	58,538	51,287	44,481	8,288	8,893	5,883	5,818	5,858	5,438	4,228	4,344	6,182	5,975	5,577	5,584
GEORGIA	34,184	35,781	33,383	33,513	21,843	22,888	22,148	22,725	5,415	6,883	5,674	4,487	3,982	3,482	2,778	3,281	2,874	2,826	2,713	3,188
HAWAII	8,833	18,387	8,818	8,148	7,389	7,838	8,398	8,358	532	584	742	1,158	838	1,824	888	854	1,158	1,131	1,818	988
IDAHO	8,374	8,821	7,844	7,358	6,153	5,985	5,871	4,512	1,382	1,311	1,841	1,185	1,887	981	754	832	742	734	778	811
ILLINOIS	148,273	188,988	186,485	112,324	118,728	122,295	71,635	88,339	18,731	18,188	18,348	15,543	8,822	18,842	8,885	8,885	8,888	8,581	8,818	7,357
INDIANA	42,488	53,895	45,848	38,648	38,281	48,828	34,551	27,744	8,861	7,367	5,998	4,828	2,471	2,887	1,927	1,831	2,787	3,893	2,588	2,444
IOWA	34,881	35,578	31,888	28,888	23,811	25,788	22,812	21,398	5,842	5,471	5,288	3,847	2,738	2,523	1,981	2,885	1,898	1,784	1,588	1,558
KANSAS	28,488	28,822	27,987	28,818	24,828	22,585	26,284	17,781	2,814	1,718	1,715	1,812	1,887	1,888	778	748	1,288	1,448	1,188	1,158
KENTUCKY	28,838	27,829	24,178	22,848	18,884	18,848	18,484	18,872	5,837	5,518	4,731	3,883	1,367	1,486	1,373	1,854	1,442	1,874	1,878	1,528
LOUISIANA	31,888	31,888	28,881	27,112	26,278	26,878	24,958	21,888	2,267	2,357	2,444	2,282	1,588	1,385	1,475	1,881	872	1,858	1,883	1,151
MAINE	8,787	18,428	9,888	8,818	5,847	6,818	5,885	5,895	1,247	1,818	1,824	1,351	782	833	896	834	1,851	1,781	1,885	1,838
MARYLAND	48,778	58,734	49,818	43,788	34,821	37,517	37,858	32,518	2,487	2,825	2,844	1,815	3,888	4,826	3,836	3,848	5,874	5,868	6,282	5,813
MASSACHUSETTS	78,298	78,958	85,488	58,774	38,818	38,288	31,123	27,734	28,418	28,838	21,858	28,184	3,847	4,381	3,558	3,358	8,114	8,555	8,867	8,586
MICHIGAN	111,512	184,574	92,317	88,385	83,132	83,742	72,888	73,374	11,328	12,483	12,586	9,898	3,274	3,837	2,834	2,837	3,788	4,582	3,811	3,388
MINNESOTA	42,853	44,825	26,778	48,232	28,812	29,378	14,288	28,528	8,157	8,838	5,753	4,844	4,888	5,888	4,818	4,858	2,384	2,822	2,133	2,284
MISSISSIPPI	28,218	28,112	28,928	28,778	24,888	24,738	23,788	17,887	1,788	1,757	1,533	1,331	888	1,814	838	788	711	883	884	884
MISSOURI	42,844	42,378	48,182	33,888	31,888	31,128	38,488	23,248	5,428	5,588	4,537	5,838	2,851	2,883	2,427	2,588	2,788	2,778	2,732	2,258
MONTANA	7,355	8,185	7,814	8,585	5,417	5,881	5,397	4,394	427	888	871	887	728	787	558	628	781	887	887	878
NEBRASKA	21,888	24,832	17,881	15,848	17,542	19,219	13,455	11,818	1,988	2,457	2,142	1,384	1,158	1,325	1,188	1,884	1,887	1,831	888	964
NEVADA	5,254	8,442	13,785	7,228	3,438	4,572	12,487	5,878	23	24	25	45	1,341	1,288	783	735	551	588	578	578
NEW HAMPSHIRE	8,892	8,748	8,348	7,248	3,815	4,358	3,313	3,343	1,488	1,951	1,788	584	1,137	1,487	1,288	1,181	1,731	1,972	2,867	2,188
NEW JERSEY	88,393	98,817	78,248	83,844	48,781	52,518	37,588	33,434	9,328	8,728	4,385	5,187	8,812	8,884	8,132	8,374	18,384	18,874	18,125	18,838
NEW MEXICO	18,888	18,523	8,181	8,888	8,883	7,843	8,948	7,228	332	248	124	53	1,878	1,378	1,184	1,888	884	1,855	934	883
NEW YORK	184,752	221,514	192,218	141,584	111,483	141,172	115,288	77,828	52,258	58,878	58,288	38,887	18,778	8,752	8,487	8,348	28,314	18,814	18,188	16,723
NORTH CAROLINA	84,841	81,888	55,998	57,458	51,525	48,988	48,484	47,881	8,998	8,274	8,787	8,828	1,522	1,881	1,188	1,314	1,888	1,827	1,811	1,827
NORTH DAKOTA	8,182	8,585	5,251	7,188	8,878	8,758	4,134	5,878	254	358	138	282	812	888	814	887	418	538	385	345
OHIO	88,588	184,214	78,573	72,288	73,288	75,887	55,888	51,755	14,398	17,383	14,488	18,878	5,821	5,813	4,824	4,514	8,151	8,811	5,455	5,188
OKLAHOMA	28,788	32,254	31,881	27,587	25,582	27,588	28,884	23,812	1,858	2,135	3,837	1,534	1,318	1,377	1,155	1,148	1,111	1,282	1,885	1,183
OREGON	48,567	35,315	28,485	21,938	38,385	38,812	24,823	17,988	1,373	1,482	1,728	1,388	1,184	1,388	848	837	1,845	1,821	1,784	1,781
PENNSYLVANIA	188,874	184,445	97,888	81,738	58,737	68,888	58,487	48,827	24,758	28,814	26,878	18,881	8,828	7,852	8,148	8,818	9,758	9,318	8,528	7,811
RHODE ISLAND	11,247	14,835	14,843	7,748	8,471	9,278	18,287	8,848	2,248	2,898	2,143	1,318	778	878	784	783	1,788	1,788	1,728	1,678
SOUTH CAROLINA	33,838	38,838	26,582	25,748	25,334	22,448	17,234	18,757	5,528	5,318	4,858	4,188	1,238	1,385	1,878	1,335	1,538	1,518	1,438	1,543
SOUTH DAKOTA	8,858	7,772	5,838	5,818	4,332	4,341	3,288	3,481	1,313	1,878	1,355	998	725	824	778	815	488	828	481	418
TENNESSEE	37,888	37,858	34,838	27,823	28,748	27,148	27,821	18,521	5,387	8,282	4,181	3,888	2,188	2,578	2,112	2,178	1,548	1,848	1,814	1,718
TEXAS	148,711	148,588	117,543	182,672	138,781	131,478	182,382	87,688	18,187	18,329	8,722	8,818	3,187	3,757	2,845	2,838	2,858	3,888	2,874	3,312
UTAH	15,221	15,488	18,981	11,188	12,523	12,778	17,531	8,648	1,675	1,428	1,523	1,335	481	458	277	388	822	758	858	818
VERMONT	4,831	4,428	4,238	4,331	1,747	1,827	1,818	1,942	888	883	1,818	988	522	618	588	484	883	888	888	1,821
VIRGINIA	38,288	48,888	38,184	36,883	27,857	27,483	27,858	28,428	4,417	4,478	3,853	2,338	3,374	4,848	3,383	3,374	4,412	4,758	4,188	4,752
WASHINGTON	28,815	32,414	28,818	85,888	22,268	23,892	21,884	58,283	2,871	3,213	2,288	2,383	1,758	3,218	1,318	1,885	2,225	2,288	2,518	2,545
WEST VIRGINIA	14,788	13,817	12,887	12,785	11,888	18,411	8,871	8,858	1,425	1,671	1,522	1,184	888	818	774	888	771	825	848	785
WISCONSIN	83,283	88,111	57,855	48,814	53,978	58,685	48,778	41,282	4,885	4,238	3,883	3,848	2,518	2,538	2,858	2,385	2,858	2,888	2,537	2,388
WYOMING	4,832	5,381	5,878	4,848	3,787	4,378	4,285	3,895	8	1	8	8	478	548	448	458	447	474	371	581
UNITED STATES	2,418,584	2,485,583	2,821,848	1,958,888	1,828,188	1,882,347	1,471,881	1,445,331	382,123	314,352	277,338	228,881	128,388	138,881	112,828	132,478	185,877	178,123	188,488	155,248

Table 4 Historical Data--College Starting

State	Non-resident first-time freshmen attending state public institutions (f)				State public and private high school graduates, Spring (g)							Fall Enrollment Survey First-time freshmen enrollment attending state public institutions (h)							
	1979	1981	1984	1986	1979	1981	1982	1983	1984	1985	1986	1979	1980	1981	1982	1983	1984	1985	1986
ALABAMA	5,303	4,345	4,722	4,340	50,940	48,516	49,072	47,930	45,411	43,229	42,016	32,992	34,015	31,504	30,546	35,272	30,733	33,492	
ALASKA	151	136	109	91	5,201	6,209	5,447	5,550	5,457	5,334	5,614	3,369	10,570	1,125	1,109	1,333	1,007	1,235	
ARIZONA	7,960	8,770	6,709	7,179	32,047	28,416	28,049	29,007	28,530	27,[illegible]	27,533	56,555	59,705	73,044	75,014	55,073	74,710	63,707	
ARKANSAS	1,374	1,333	1,202	1,112	28,750	30,209	30,691	30,924	27,[illegible]	[illegible],517	26,527	15,321	15,550	14,936	14,472	14,371	13,761	13,093	
CALIFORNIA	18,710	19,962	8,755	13,436	295,044	273,973	270,454	272,[illegible]90	269,[illegible]24	264,517	259,706	346,022	339,475	341,070	307,053	266,364	259,024	261,504	
COLORADO	4,325	5,434	4,057	1,300	37,234	35,993	35,494	34,075	32,956	32,255	32,021	27,052	27,433	26,999	24,242	25,006	22,332	22,765	
CONNECTICUT	1,154	1,345	1,205	1,073	48,147	46,673	46,245	46,496	46,580	42,160	42,000	20,951	22,430	20,655	23,117	24,455	24,710	23,031	
DELAWARE	2,100	1,933	2,027	2,460	9,272	8,896	8,779	8,586	8,110	7,502	7,131	6,090	7,059	6,206	6,119	6,495	5,939	5,939	
DIST COLUMBIA	162	414	637	366	7,365	6,462	6,020	5,489	5,702	5,493	5,276	3,035	7,229	4,070	4,575	3,030	3,749	3,356	
FLORIDA	7,372	8,220	6,114	4,667	90,140	99,511	90,753	84,445	83,073	80,163	81,162	84,244	83,503	72,515	82,941	83,930	80,533	82,524	
GEORGIA	2,805	3,079	2,696	2,490	64,711	65,463	68,989	65,793	63,210	62,000	61,445	23,859	23,021	26,253	28,553	26,599	24,064	24,915	
HAWAII	402	410	284	280	14,097	14,619	13,999	13,301	13,041	12,575	12,511	7,736	7,027	8,056	7,995	8,307	8,602	8,474	
IDAHO	1,017	1,120	851	831	13,660	13,168	12,782	12,353	11,980	11,604	12,316	8,414	7,187	8,022	8,029	5,779	8,216	9,031	
ILLINOIS	2,472	2,394	1,850	1,263	160,669	156,991	156,002	148,061	141,935	136,054	132,772	115,009	124,572	135,415	106,457	119,050	87,990	93,669	
INDIANA	4,367	4,583	4,301	3,895	79,456	78,499	78,191	75,107	69,344	66,931	63,914	39,921	42,743	45,757	40,006	40,152	39,078	39,739	
IOWA	2,486	3,179	3,063	2,789	47,904	45,998	44,726	42,484	39,989	38,796	37,184	26,677	29,378	29,795	29,969	29,766	27,486	27,170	
KANSAS	3,503	3,344	2,714	2,905	34,007	31,200	30,109	28,316	26,700	27,534	27,137	26,003	25,049	24,971	25,542	25,048	25,003	24,780	
KENTUCKY	2,577	2,680	1,957	1,997	45,795	46,392	46,810	44,963	43,536	42,248	40,896	21,000	22,696	21,332	19,127	19,148	19,535	18,014	
LOUISIANA	2,025	3,090	2,993	1,881	55,114	54,420	47,019	45,249	46,052	46,452	46,981	27,723	29,753	30,003	29,701	28,817	27,923	27,207	
MAINE	845	825	744	783	16,965	17,395	17,013	16,804	15,885	15,721	14,773	5,983	6,584	6,812	6,297	7,195	6,787	6,390	
MARYLAND	2,100	4,020	5,760	3,900	62,043	61,611	61,682	59,353	57,335	54,939	53,120	37,023	45,594	42,068	42,072	41,610	38,541	37,411	
MASSACHUSETTS	2,868	2,497	2,314	2,132	87,052	85,445	85,209	82,573	82,441	81,000	78,880	43,257	48,991	42,706	43,294	43,375	37,550	37,075	
MICHIGAN	4,405	3,875	3,041	3,993	142,739	136,129	132,644	125,666	122,000	118,000	121,000	97,541	110,190	91,023	99,963	84,027	90,147	86,956	
MINNESOTA	2,360	2,010	2,140	3,247	71,339	68,443	66,429	63,113	59,593	57,530	56,149	31,396	32,754	32,200	32,100	32,231	32,780	36,747	
MISSISSIPPI	2,314	2,397	2,466	2,382	29,363	31,210	31,005	31,745	30,681	29,315	27,752	26,796	21,320	27,500	32,570	32,645	29,910	25,400	
MISSOURI	3,870	2,747	2,010	2,107	71,163	67,349	66,072	63,420	60,398	57,695	55,204	33,024	38,374	42,107	37,645	39,962	40,760	29,109	
MONTANA	765	930	555	370	12,452	12,625	12,007	11,000	10,226	10,010	10,079	6,060	6,502	6,337	5,947	6,041	5,500	5,533	
NEBRASKA	702	1,027	690	700	24,003	23,400	21,400	20,130	19,301	19,403	20,202	19,033	20,019	17,074	18,932	15,935	16,205	16,536	
NEVADA	400	585	374	397	8,591	8,375	9,599	9,349	9,096	8,955	8,818	3,000	5,073	4,000	8,211	11,100	7,500	11,720	
NEW HAMPSHIRE	1,750	1,001	1,044	1,001	12,755	13,995	13,703	13,020	13,000	12,522	12,391	5,523	5,413	5,202	5,572	5,030	5,764	5,013	
NEW JERSEY	1,021	1,365	909	1,605	111,033	100,270	107,750	104,040	99,569	95,547	91,201	50,030	53,000	54,001	40,210	47,023	43,420	42,250	
NEW MEXICO	1,205	1,312	1,200	1,177	19,000	19,117	18,720	17,725	16,970	16,030	16,920	8,112	9,045	9,250	9,555	8,070	8,025	9,445	
NEW YORK	3,200	16,116	4,913	3,109	240,523	230,079	230,000	227,126	205,001	197,595	192,292	110,123	110,764	110,302	110,112	100,725	103,040	102,444	
NORTH CAROLINA	4,703	4,107	4,406	5,114	75,430	72,970	74,050	74,050	69,475	70,047	68,609	56,700	54,205	55,405	53,300	52,024	56,127	61,660	
NORTH DAKOTA	1,517	1,093	1,705	1,502	11,270	10,070	10,300	9,021	9,121	8,742	8,149	8,231	9,010	8,025	8,040	8,511	7,047	7,739	
OHIO	4,151	4,460	3,701	3,466	167,044	160,370	159,272	155,660	140,000	137,200	133,170	82,544	86,203	82,196	74,402	73,107	70,267	69,047	
OKLAHOMA	2,220	2,012	1,574	1,301	39,225	38,075	38,347	36,799	35,254	34,620	34,452	20,165	20,696	20,512	29,900	29,500	27,299	26,053	
OREGON	2,094	2,315	2,042	1,947	31,633	30,053	30,235	29,505	28,047	28,373	27,748	39,453	41,604	34,050	32,248	31,970	27,223	25,524	
PENNSYLVANIA	3,901	5,160	4,904	4,667	181,400	169,075	167,541	160,329	153,050	149,100	144,350	64,603	68,101	65,159	60,401	67,570	64,161	60,310	
RHODE ISLAND	914	1,144	906	1,106	13,342	12,057	12,719	12,446	11,611	11,250	10,148	7,366	5,300	10,302	10,465	11,020	11,002	5,039	
SOUTH CAROLINA	2,349	2,234	2,044	2,460	39,097	41,463	41,031	41,126	40,220	39,341	38,921	20,150	27,404	25,010	23,225	21,020	19,461	23,439	
SOUTH DAKOTA	802	1,027	750	662	11,044	11,177	10,550	9,904	9,304	8,949	8,302	5,215	5,305	5,443	5,140	4,754	4,017	4,000	
TENNESSEE	2,543	1,037	1,970	1,760	52,603	50,023	50,047	51,904	54,040	48,493	49,421	33,504	31,710	29,077	29,473	28,253	27,040	23,563	
TEXAS	9,500	7,905	7,702	5,200	175,772	170,015	170,499	170,247	168,000	166,590	160,097	155,509	148,202	144,500	147,765	152,149	150,407	139,066	
UTAH	1,907	1,713	1,679	953	20,045	19,000	19,667	19,210	19,610	19,000	20,073	14,573	14,273	14,404	11,947	12,377	11,137	9,240	
VERMONT	1,495	1,340	1,660	1,011	7,910	7,795	7,345	7,434	7,200	7,100	6,900	3,250	3,491	3,202	3,317	3,070	3,470	3,525	
VIRGINIA	6,410	4,059	5,025	5,707	71,719	71,023	72,556	70,101	66,500	65,250	63,113	31,030	31,517	32,405	31,992	32,042	33,304	35,964	
WASHINGTON	3,091	1,924	1,723	4,000	52,920	52,595	49,446	47,327	47,591	47,072	47,072	19,594	19,910	19,991	21,921	21,445	21,163	20,070	
WEST VIRGINIA	2,021	3,096	2,012	2,107	24,750	24,376	24,300	24,352	23,309	22,073	22,293	13,200	13,005	14,044	12,561	12,493	11,203	12,310	
WISCONSIN	4,707	5,769	4,339	4,451	78,136	74,734	74,246	71,037	68,561	65,165	64,522	59,557	67,569	63,030	60,701	60,552	60,112	51,074	
WYOMING	770	812	806	617	6,151	6,204	6,310	6,156	5,764	5,607	5,507	4,511	5,101	5,174	5,666	5,745	5,474	5,345	
UNITED STATES	152,920	169,099	134,050	132,429	3,091,657	3,024,727	2,992,507	2,903,403	2,705,691	2,700,030	2,632,190	2,013,973	2,070,906	2,060,000	1,904,969	1,910,113	1,840,242	1,777,474	

Table 4 Historical Data--Retention Profiles

State	Undergraduate enrollment in public institutions (i)			Enrollment in public 2-year colleges (j)			Associate degrees and postsecondary certificates (k)				Bachelors degrees awarded at public institutions (l)				Graduate enrollment at public institutions (m)			
	Fall 1984	Fall 1985	Fall 1986	Fall 1984	Fall 1985	Fall 1986	1982-83	1983-84	1984-85	1985-86	1982-83	1983-84	1984-85	1985-86	Fall 1983	Fall 1984	Fall 1985	Fall 1986
ALABAMA	129,650	136,090		47,127	54,012		Not	5,945	10,321	10,369	13,933	13,613	14,050	13,002	12,283	12,090	13,352	
ALASKA	10,681	11,202		16,745	15,987		avail.	677	770	800	631	651	775	748	1,126	1,067	1,078	
ARIZONA	103,510	107,003		113,868	117,917			7,909	8,004	7,896	10,529	10,283	10,480	10,048	13,878	14,191	13,417	
ARKANSAS	65,103	54,050		12,490	12,190			1,869	1,955	1,799	5,096	5,062	5,762	5,034	4,503	5,999	6,073	
CALIFORNIA	1,140,075	1,146,223		870,054	900,401			69,740	69,232	68,223	64,479	65,782	65,979	66,536	59,495	61,874	61,874	
COLORADO	100,131	106,569		43,954	41,493			5,910	5,797	5,797	12,793	12,531	12,737	12,739	11,250	11,333	11,029	
CONNECTICUT	79,330	78,313		42,402	40,748			5,117	4,812	4,350	6,413	6,545	6,637	6,984	11,364	11,123	11,793	
DELAWARE	22,150	22,470		1,130	1,401			1,062	988	954	2,984	3,029	2,795	2,882	1,993	1,992	2,092	
DIST COLUMBIA	12,172	11,485		0	0			314	342	352	570	540	533	588	953	855	790	
FLORIDA	200,449	202,872		210,451	215,905			35,088	35,198	35,526	20,784	19,770	21,189	21,090	17,532	18,337	19,302	
GEORGIA	110,092	117,883		37,329	36,337			5,126	4,927	4,885	13,257	13,050	13,785	14,181	10,895	10,521	10,870	
HAWAII	34,071	33,446		20,173	20,093			3,028	2,998	3,038	2,819	2,929	2,817	2,859	3,536	3,484	3,787	
IDAHO	28,000	28,950		5,200	5,121			2,278	2,250	2,057	2,838	2,813	2,742	2,781	3,287	4,075	3,866	
ILLINOIS	302,650	301,083		319,950	332,900			29,352	29,513	31,437	20,196	20,849	27,784	28,142	30,105	30,351	31,003	
INDIANA	159,526	159,184		34,590	34,529			9,563	9,448	8,838	18,177	17,574	18,114	18,351	21,583	19,726	20,426	
IOWA	91,005	92,001		39,018	39,022			12,259	11,418	11,495	8,229	8,588	9,169	9,583	12,481	12,590	12,482	
KANSAS	95,353	95,470		43,359	43,273			5,949	5,994	5,958	10,298	10,185	10,163	9,891	13,757	13,855	13,826	
KENTUCKY	86,863	84,007		23,742	23,787			4,392	4,281	4,031	9,296	9,393	9,251	9,444	12,216	11,502	8,988	
LOUISIANA	126,301	126,119		14,447	14,938			2,279	2,358	2,328	12,920	13,360	13,584	13,915	17,035	15,899	14,232	
MAINE	23,900	23,756		4,858	4,503			2,058	2,284	2,199	2,888	2,898	2,989	2,984	1,838	1,835	1,978	
MARYLAND	171,786	166,785		99,310	94,927			8,534	8,505	7,998	12,656	12,410	12,356	13,148	13,752	14,129	14,187	
MASSACHUSETTS	126,572	125,958		74,505	75,840			9,493	9,091	9,096	12,588	12,238	12,769	12,847	12,777	12,993	12,881	
MICHIGAN	367,330	363,520		207,855	205,258			24,882	24,372	22,625	31,279	31,199	30,872	29,353	35,831	35,737	37,140	
MINNESOTA	139,596	140,206		46,620	46,681			8,548	9,455	9,332	13,983	13,773	13,851	13,423	12,828	13,861	13,371	
MISSISSIPPI	81,831	80,576		30,618	30,148			6,417	6,885	6,195	7,728	7,874	7,588	7,743	6,913	6,852	6,514	
MISSOURI	145,726	128,758		58,353	57,858			8,868	8,481	8,168	14,317	14,553	14,581	14,739	13,681	13,733	13,981	
MONTANA	28,882	27,272		3,448	3,529			677	705	681	3,884	3,786	3,929	3,973	2,299	1,936	2,001	
NEBRASKA	62,497	62,007		25,730	26,125			4,132	4,148	4,014	5,984	5,893	6,037	6,187	8,857	8,518	8,139	
NEVADA	36,864	36,353		22,930	22,078			1,178	1,052	1,054	1,690	1,839	1,958	1,939	1,682	1,838	1,848	
NEW HAMPSHIRE	20,681	19,486		6,584	6,895			1,598	1,824	1,588	3,118	2,878	3,058	3,084	1,198	1,225	1,244	
NEW JERSEY	185,443	182,998		108,299	108,372			10,358	10,189	9,842	17,441	18,484	18,248	18,158	18,415	16,888	18,757	
NEW MEXICO	43,489	44,248		13,882	14,887			2,178	2,885	2,285	4,128	4,851	4,241	4,388	6,845	6,833	7,883	
NEW YORK	432,841	423,827		245,783	242,731			43,832	42,984	42,852	36,888	37,841	37,848	37,428	34,932	34,978	36,239	
NORTH CAROLINA	184,682	195,883		123,488	138,313			15,898	14,972	14,688	18,289	18,952	18,788	17,828	15,512	18,985	18,528	
NORTH DAKOTA	28,486	29,499		7,318	7,287			2,989	2,872	2,785	3,588	3,654	3,881	3,876	1,951	2,212	1,978	
OHIO	313,713	310,891		122,247	118,822			18,985	18,588	18,193	29,153	28,748	29,831	28,944	36,688	35,716	36,288	
OKLAHOMA	111,889	108,493		56,851	54,832			4,884	4,156	5,263	10,196	10,387	11,012	11,373	14,839	13,748	14,958	
OREGON	97,528	94,212		64,638	59,965			6,315	6,583	5,991	8,988	8,562	8,428	8,448	7,777	7,884	8,878	
PENNSYLVANIA	244,883	243,423		115,851	111,154			18,311	18,171	15,483	27,888	28,842	27,124	27,782	27,885	28,881	27,211	
RHODE ISLAND	26,948	22,336		12,317	12,617			1,578	1,448	1,443	2,911	2,788	2,888	2,828	2,432	2,481	2,588	
SOUTH CAROLINA	82,641	83,818		38,547	38,758			6,373	5,815	5,527	8,578	8,728	8,978	9,335	8,375	8,631	8,815	
SOUTH DAKOTA	18,399	17,871		0	0			772	385	426	3,267	3,249	3,318	3,194	2,243	2,558	2,438	
TENNESSEE	125,157	115,518		48,183	48,521			5,633	5,435	4,988	11,333	11,522	11,552	11,832	11,935	11,233	11,039	
TEXAS	587,318	558,889		321,742	308,157			27,688	28,872	27,861	42,747	43,158	44,885	45,391	84,549	84,781	84,459	
UTAH	68,362	61,898		18,444	19,145			4,015	3,738	3,897	5,185	5,315	5,264	5,573	4,738	4,868	4,845	
VERMONT	12,726	13,962		3,898	3,834			538	520	528	2,184	2,214	2,218	2,188	1,248	1,218	1,139	
VIRGINIA	158,882	164,388		106,687	109,374			9,512	9,118	8,188	17,955	18,487	18,671	18,898	17,848	18,885	28,458	
WASHINGTON	169,987	168,582		122,951	123,688			15,233	14,872	14,678	13,878	13,118	12,938	12,787	18,444	18,884	18,878	
WEST VIRGINIA	53,238	52,529		9,751	9,127			2,892	2,386	2,258	6,248	6,498	6,788	6,818	8,347	7,998	7,753	
WISCONSIN	188,837	181,845		83,288	84,233			17,957	16,811	16,375	18,821	18,548	18,998	19,348	17,678	17,846	17,953	
WYOMING	17,944	18,314		13,337	14,881			1,851	1,864	1,788	1,381	1,487	1,588	1,857	1,298	1,318	1,295	
UNITED STATES	7,488,144	7,392,882	492,795	4,228,264	4,234,521	492,795		492,795	498,882	475,419	642,855	642,187	648,453	654,896	689,473	689,833	788,489	

Table 5. Indexes of state level data base variables

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	pop
ALABAMA	84	98	75	140	87	70	85	84	73	150	93	82	99	115	174	114	122	88	126	69	96	36	104	103	145	88	118	81	110	83	89
ALASKA	58	115	125	76	128	284	37	185	99	85	95	57	105	35	117	125	94	14	226	247	87	7	98	147	223	129	75	221	49	191	12
ARIZONA	98	113	107	103	97	98	115	70	44	60	77	328	251	278	130	121	162	109	63	123	87	13	123	108	45	119	98	93	88	89	69
ARKANSAS	51	99	85	146	91	72	45	75	174	153	99	72	73	84	113	110	80	36	200	39	119	34	66	42	126	97	131	98	101	90	59
CALIFORNIA	125	105	128	95	94	110	149	97	47	98	87	131	137	107	51	113	151	781	47	149	14	86	123	125	61	87	107	131	42	111	557
COLORADO	107	104	138	72	85	103	74	110	142	55	94	84	199	109	235	114	131	77	121	68	112	83	112	63	152	86	69	85	175	86	89
CONNECTICUT	122	98	75	71	99	119	141	128	43	85	121	107	123	93	60	80	52	53	200	93	75	70	126	36	81	163	106	124	90	120	87
DELAWARE	86	100	111	97	80	99	128	120	102	87	107	88	130	78	524	113	112	15	168	58	101	26	128	46	142	89	113	94	174	121	14
DIST COLUMBIA	131	94	153	169	138	185	125	120	3	150	89	184	748	36	442	21	55	7	0	0	82	31	126	96	35	139	133	218	37	183	13
FLORIDA	118	115	96	116	76	82	194	108	26	112	81	89	191	103	127	104	109	196	47	133	96	60	110	224	94	84	103	89	86	85	222
GEORGIA	84	105	85	132	90	83	113	78	63	143	86	84	177	66	125	98	77	81	168	51	141	47	68	47	171	113	139	109	98	108	137
HAWAII	100	100	122	81	99	106	201	97	5	123	113	81	69	93	51	112	85	23	142	104	39	32	126	148	113	124	174	178	32	141	24
IDAHO	25	97	98	89	90	72	55	65	293	38	111	83	41	80	135	102	94	18	100	33	185	8	55	102	129	131	145	87	57	86	28
ILLINOIS	108	95	97	92	106	108	130	105	158	97	108	108	62	96	30	99	99	281	74	152	99	174	107	154	68	104	89	94	83	89	242
INDIANA	89	95	73	74	96	85	124	88	148	88	103	80	86	94	134	100	89	105	111	38	250	100	89	66	129	105	111	84	141	96	119
IOWA	58	93	82	72	112	97	50	93	180	100	122	101	33	109	140	93	95	59	100	76	178	110	60	165	190	125	97	85	132	94	59
KANSAS	68	87	105	71	96	100	44	109	445	68	108	125	157	172	120	116	127	69	121	79	94	31	88	81	132	128	88	81	118	84	51
KENTUCKY	59	96	82	135	87	71	101	81	96	125	97	68	95	71	121	101	93	60	100	49	112	47	41	59	139	98	137	90	100	93	82
LOUISIANA	90	90	83	147	93	96	109	81	31	147	85	78	178	103	124	112	98	83	53	21	77	8	66	23	145	97	85	78	139	87	101
MAINE	47	99	81	99	104	97	81	81	200	98	111	78	53	70	134	82	66	18	189	33	183	22	85	102	139	81	125	124	100	120	25
MARYLAND	121	100	135	78	101	105	162	117	28	147	104	95	46	122	160	111	101	108	121	99	117	26	118	84	94	106	85	81	127	99	99
MASSACHUSETTS	110	97	123	82	108	109	143	105	38	133	120	107	74	71	82	57	59	100	105	104	117	159	126	98	97	92	107	110	96	117	130
MICHIGAN	105	93	87	83	120	104	100	89	82	92	113	107	144	113	60	111	99	235	53	99	130	88	105	106	108	115	82	85	147	99	199
MINNESOTA	86	96	109	84	110	117	71	103	239	88	122	108	171	45	155	102	107	94	137	56	178	174	84	96	139	98	82	95	99	95	99
MISSISSIPPI	39	97	73	190	93	78	68	87	93	153	87	116	14	147	112	116	114	49	211	83	126	10	49	110	87	81	107	77	142	88	68
MISSOURI	88	98	82	91	84	79	71	91	177	112	102	99	96	96	94	91	88	91	95	78	101	29	85	58	110	99	114	98	124	97	105
MONTANA	32	96	101	96	107	99	35	115	361	88	113	84	93	100	111	115	100	17	111	23	83	8	59	23	200	47	89	88	94	87	16
NEBRASKA	81	95	82	78	93	93	36	89	589	100	119	124	71	131	74	107	105	44	147	73	116	8	65	89	110	140	78	88	128	72	33
NEVADA	100	112	87	82	84	95	112	87	59	88	99	106	188	268	35	129	81	23	100	108	97	7	111	79	145	81	114	118	90	114	19
NEW HAMPSHIRE	74	105	108	59	85	72	105	92	155	55	105	79	14	45	440	88	64	14	263	55	211	18	122	72	190	38	87	58	243	88	22
NEW JERSEY	131	98	118	88	105	113	182	140	59	77	108	95	88	72	31	103	60	128	74	101	110	117	128	85	97	95	109	128	106	130	159
NEW MEXICO	82	103	78	138	86	92	93	94	65	105	99	69	114	78	175	125	106	36	137	58	79	14	100	72	148	155	125	98	84	87	32
NEW YORK	118	97	113	119	158	137	182	132	54	107	98	97	99	106	49	73	82	305	89	100	174	388	128	155	198	89	96	141	86	127	374
NORTH CAROLINA	72	102	77	114	93	85	116	85	42	128	94	107	23	126	105	106	130	144	195	124	34	100	107	119	97	92	124	107	59	95	141
NORTH DAKOTA	49	96	84	89	92	98	24	84	1172	77	110	94	27	86	348	119	139	19	200	43	184	14	73	99	139	48	87	85	122	91	15
OHIO	103	94	81	83	103	93	110	91	90	102	112	78	99	71	75	95	87	205	84	67	174	85	104	77	113	118	88	78	151	93	223
OKLAHOMA	78	102	92	98	84	92	42	74	192	120	97	105	91	143	66	112	125	79	105	88	94	84	82	64	119	126	75	85	88	82	89
OREGON	88	96	108	75	101	92	74	103	155	97	101	124	89	158	93	112	125	65	126	111	113	60	101	98	81	89	95	87	110	90	51
PENNSYLVANIA	110	98	81	87	102	88	136	114	124	85	111	80	115	78	97	73	85	163	132	80	174	113	113	77	135	93	107	89	165	111	244
RHODE ISLAND	121	99	91	85	110	98	182	100	37	137	91	152	94	168	104	65	101	19	0	99	138	130	109	76	84	87	97	87	126	95	21
SOUTH CAROLINA	79	101	75	131	95	77	92	86	56	135	94	74	48	81	126	104	91	57	211	77	119	75	87	82	116	101	159	116	110	120	78
SOUTH DAKOTA	37	95	82	125	87	75	29	85	715	35	113	75	63	87	221	92	79	13	200	0	266	12	35	18	197	68	94	88	133	78	15
TENNESSEE	87	99	72	129	82	73	94	74	56	103	94	72	88	95	81	98	86	80	121	70	114	44	76	59	129	89	108	119	102	120	102
TEXAS	105	107	104	117	78	88	90	99	76	110	91	114	55	115	84	114	116	366	95	97	58	71	96	85	97	135	92	81	92	79	358
UTAH	100	99	127	67	109	92	89	71	90	35	104	71	54	169	104	86	104	38	58	54	179	65	97	98	116	85	113	92	94	90	36
VERMONT	30	100	108	87	93	90	87	104	361	77	115	71	16	48	571	78	78	10	195	49	344	191	72	33	223	47	59	45	298	111	12
VIRGINIA	93	102	117	93	87	89	124	103	20	110	97	70	89	79	207	111	109	136	111	116	126	45	58	60	187	102	112	96	124	104	132
WASHINGTON	106	101	121	72	95	98	79	103	115	92	101	83	74	87	87	113	117	109	121	128	113	35	114	158	213	78	95	95	96	94	90
WEST VIRGINIA	48	94	54	116	103	81	74	97	90	133	104	84	56	72	220	112	88	36	232	30	140	62	60	47	155	107	95	70	121	75	39
WISCONSIN	87	95	89	95	123	112	90	111	153	93	121	113	23	135	97	112	109	129	79	81	190	79	84	117	97	88	82	90	130	99	104
WYOMING	38	97	104	48	100	190	49	180	220	57	108	114	36	140	189	129	114	13	247	134	80	6	65	142	100	75	96	172	45	148	10
UNITED STATES	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100